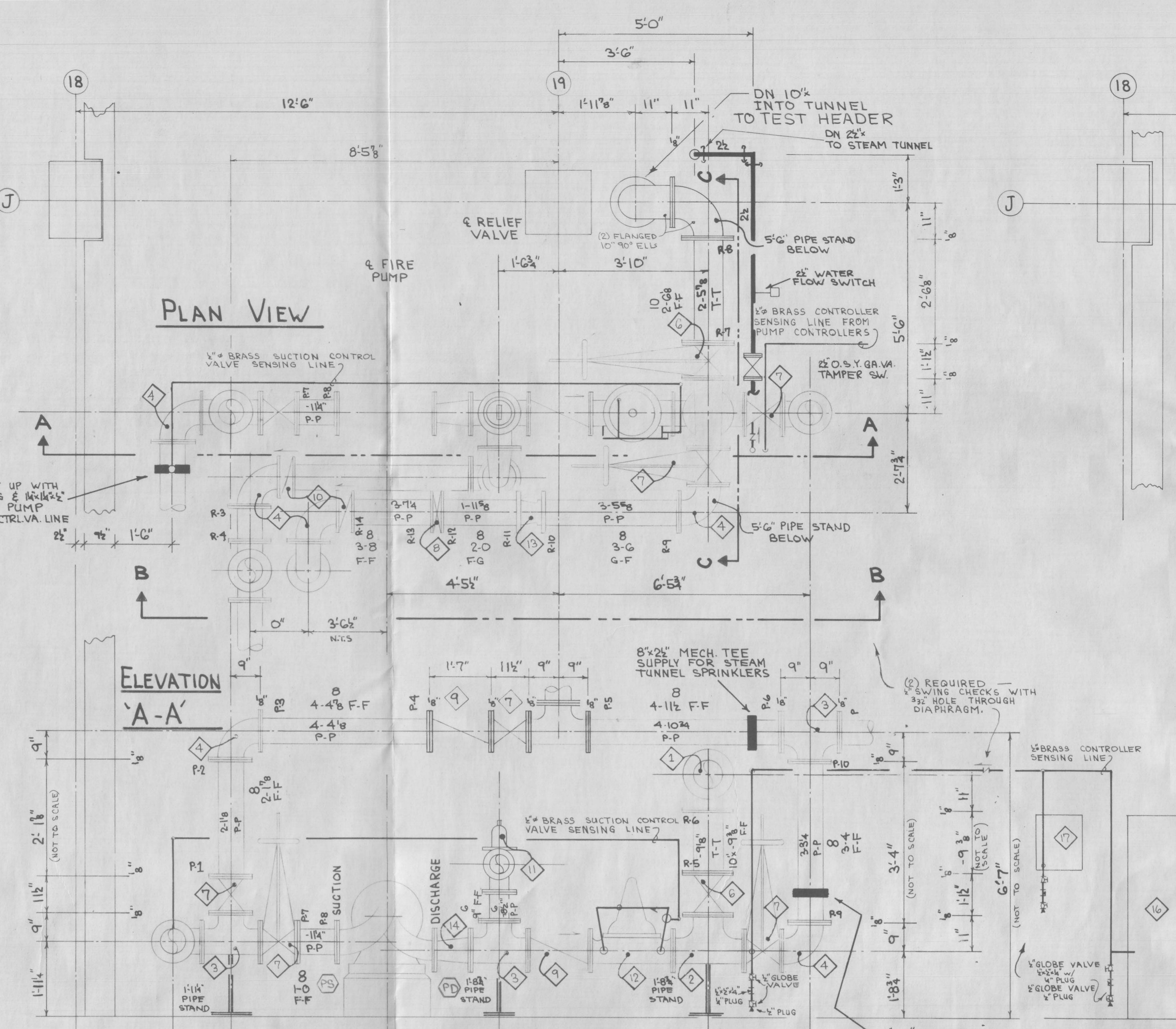


Underground Plan
1"=20'-0"

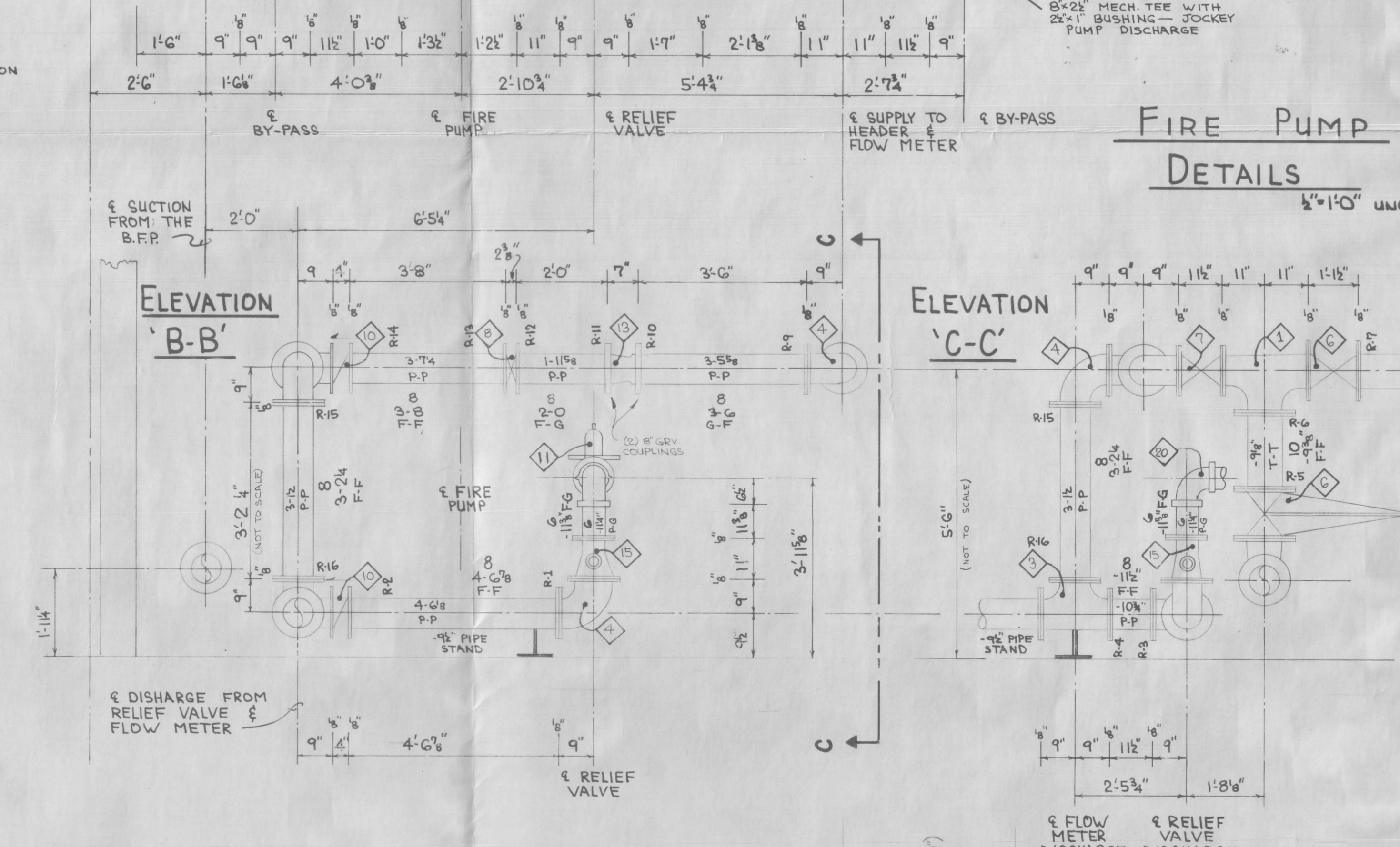
- UNDERGROUND NOTES**
1. UNDERGROUND TO BE DESIGNED, INSTALLED, TESTED, AND FLOWED IN ACCORDANCE WITH N.F.P.A. 13 AND N.F.P.A. 24.
 2. NEW UNDERGROUND FIRE MAIN TO BE DUCTILE IRON, CLASS 50, WITH MECHANICAL JOINT FITTINGS. MINIMUM BURY DEPTH TO BE 4'-0".
 3. D.S.V. GATE VALVES ON SHOCKLINE PREVENTED TO BE OF THE RESILIENT-SEAL TYPE. ALL VALVES TO HAVE TOWER SWITCHES. FLANGE AND SPIDOTS TO BE LOCATED 9" ABOVE FINISH FLOOR.
 4. BROWN SPRINKLER CORPORATION TO START AT THE SYSTEM SIDE OF THE 9" FLANGE SHOWN IN THE PIT. SEE DETAIL THIS SHEET.
 5. UNDERGROUND PIT TO BE PROVIDED AND INSTALLED BY OTHERS.
 6. FOR SIGHTLY STAGES, BROWN SPRINKLER CORPORATION IS RESPONSIBLE FOR THE INSTALLATION OF THE UNDERGROUND PIT.



PLAN VIEW

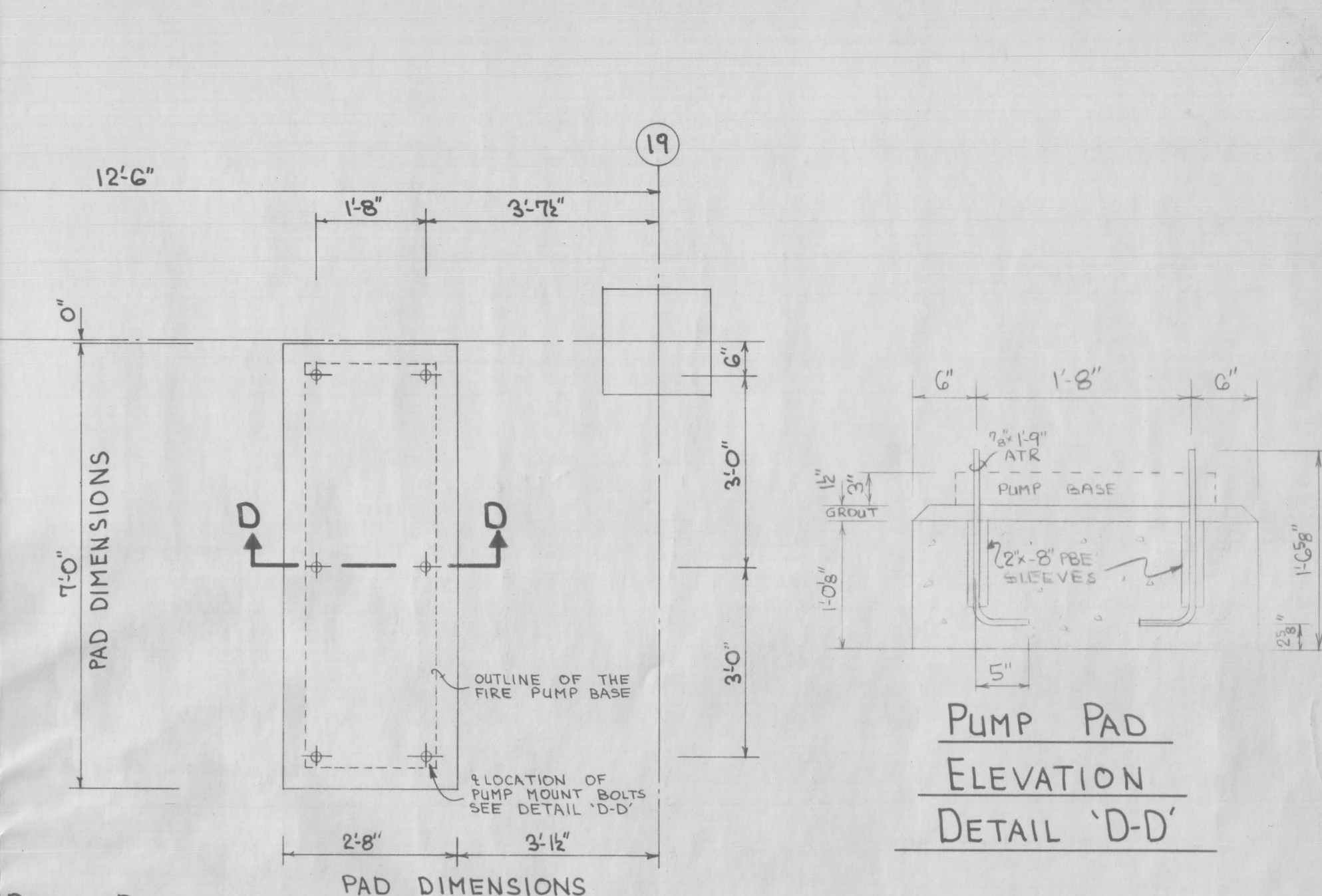
ELEVATION 'A-A'

FIRE PUMP DETAILS
1/4"=1'-0" UNO



ELEVATION 'B-B'

ELEVATION 'C-C'

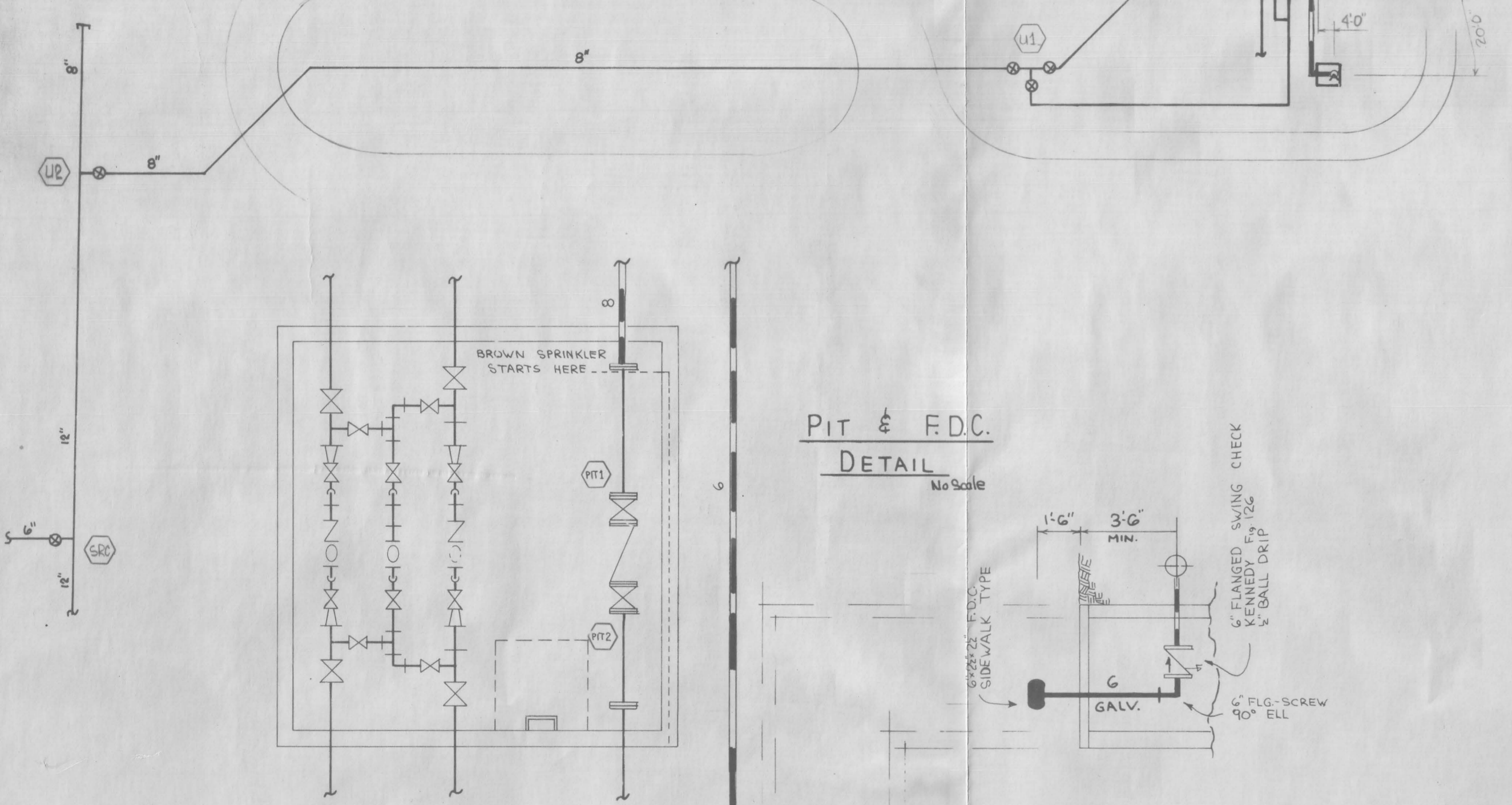


PUMP PAD PLAN VIEW

PUMP PAD ELEVATION 'D-D'

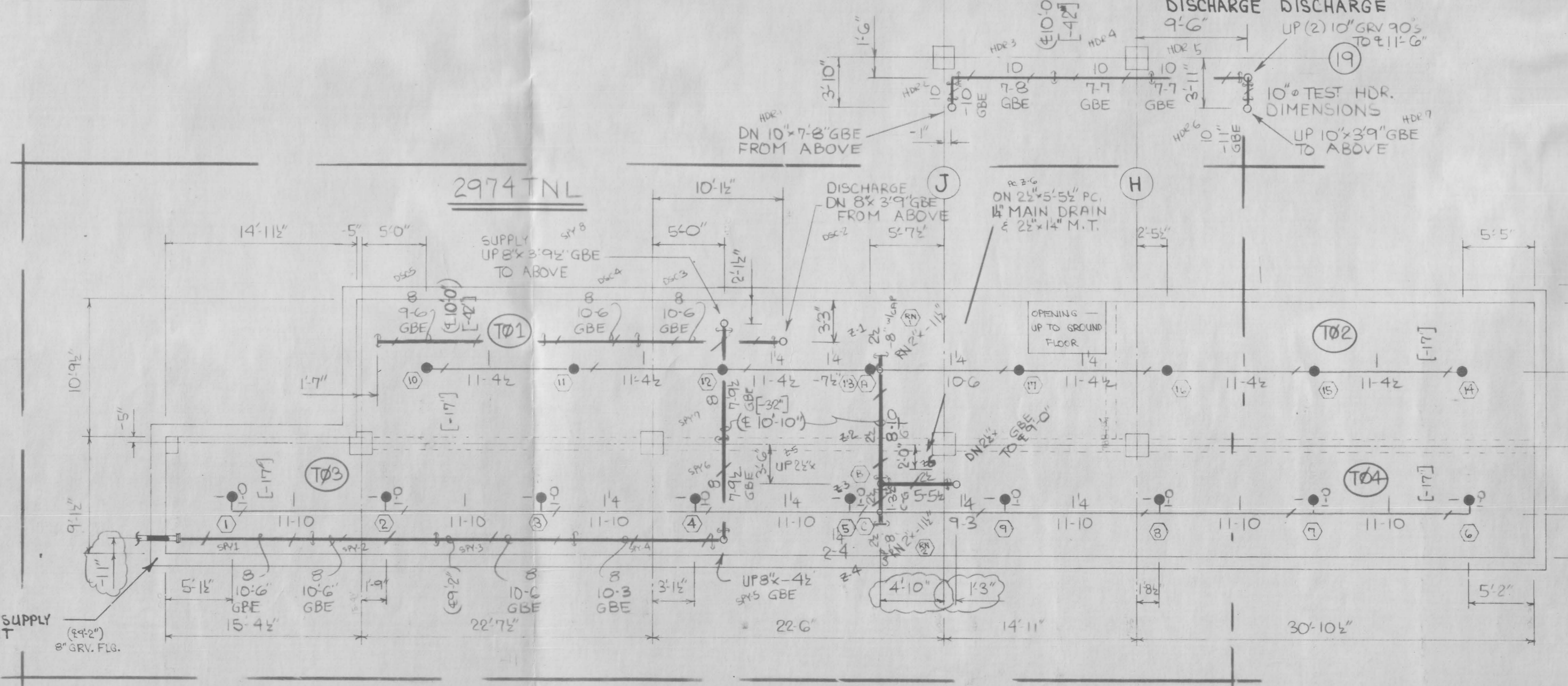
- FIRE PUMP LEGEND**
- | | |
|---|---------------------------|
| 1. 10" x 8" x 10" FLANGED REDUCING TEE | KENNEDY figure 68 |
| 2. 8" x 8" x 10" FLANGED REDUCING TEE | KENNEDY figure 68 |
| 3. 8" x 8" x 8" FLANGED TEE | KENNEDY figure 911 FM HE |
| 4. 8" FLANGED 90 DEG. ELL | KENNEDY figure 126 |
| 5. 8" x 6" FLANGED REDUCING 90 DEG. ELL | STAR model 20 |
| 6. 10" O. S. & V. GATE VALVE | MUESCO angle style 1116FM |
| 7. 8" O. S. & V. GATE VALVE | GERARD model "K" |
| 8. BUTTERFLY STYLE GATE VALVE | |
| 9. 8" FLANGED SWING CHECK VALVE | |
| 10. 8" WATER CHECK VALVE | |
| 11. 6" PRESSURE RELIEF VALVE | |
| 12. 8" PUMP SUCTION CONTROL VALVE | |
| 13. 8" VENTURI FLOW METER | |
| 14. 8" x 6" FLANGED CONCENTRIC REDUCER | |
| 15. 8" x 6" FLANGED ENCLOSED WASTE CONE | |
| 16. FIRE PUMP CONTROLLER | METRON |
| 17. JOCKEY PUMP CONTROLLER | PATTERSON |

FIRE PUMP TO BE PATTERSON model 8x6MAB5, 1500 GPM, 125 PS1.
 FIRE PUMP DRIVER TO BE ELECTRIC MOTOR type ODP, make FC, frame 444T5, 150 hp, 3-phase, 60 cycle, 208 volt, 1800 rpm.
 JOCKEY PUMP TO BE BURKS series CS, CLOSE COUPLED TURBINE, WITH AN ELECTRIC 3-PHASE MOTOR, 1 1/2 hp, 3450 rpm, 1 1/4" SUCTION, 1" DISCHARGE.
 FIRE PUMP CONTROLLER TO BE METRON model M435 WITH A RUSSELL TRANSFER SWITCH, FLOOR-MOUNTED. TRANSFER SWITCH TO INTERRUPT AT 42,000 AMP.
 JOCKEY PUMP CONTROLLER TO BE PATTERSON 15 hp, 200-208 volts, WALL-MOUNTED.
 PUMP CONTROLLER SENSING LINES TO BE 1/2" BRASS WITH BRASS FITTINGS.
 SUCTION CONTROL VALVE SENSING LINE TO BE 1/2" BRASS WITH BRASS FITTINGS.
 FIRE AND JOCKEY PUMPS TO BE DESIGNED, INSTALLED, AND TESTED IN ACCORDANCE WITH N.F.P.A. 13 AND N.F.P.A. 24.



PIT & F.D.C. DETAIL
1/4"=1'-0" UNO

- GENERAL NOTES**
10. SHOWS BRANCH LINE NUMBER
 11. SHOWS MAIN PIPE NUMBER OR END-OF-PIPE DESIGNATION
 12. SHOWS PIPE SLEEVE THROUGH WALL AND SLEEVE SIZE
 13. APPLIES DROP RIPPLE
 14. IMPLIES PIPER RIPPLE
 15. IMPLIES PIPE RISING UP
 16. IMPLIES PIPE DROPPING DOWN
 17. SHOWS HYDRAULIC REFERENCE POINT
 18. SHOWS APPROXIMATE HANGER LOCATION (DASHED - TRAPEZOID)
 19. SHOWS GROoved TYPE COUPLING OR FITTING
 20. SHOWS ELEVATION OF PIPE ABOVE FINISH FLOOR
 21. SHOWS DISTANCE FROM BOTTOM OF CONCRETE SLAB DOWN TO CENTERLINE OF SPRINKLER PIPE
- MECHANICAL AND STORAGE AREAS:** Provide 0.10 gpm/sq.ft. over the most remote 1500 square foot area.
- Watercourse Pumps:** Provide 0.20 gpm/sq.ft. over the most remote 2500 square foot area. Minimum sprinkler area of coverage to be 100 sq.ft.
- All other areas:** Provide 0.10 gpm/sq.ft. over the most remote 1500 square foot area.
- Standpipe Details:** 5/8" per ft. at 45 ft. at the highest point on the transportation tower. An additional 250 gpm for each standpipe which connects to the bulk main up to a maximum of 1500 gpm total tower and additional standpipes.
- SPRINKLER TYPES LISTED BELOW. USE STAR OR WELLS:**
- Areas with sprinkler ceilings: Use the Star Model 1202 type standard, chrome plated, chrome escutcheon.
 - Areas without ceilings: Use the Star Model 1202 type light or pendant sprinkler, brass finish, where the sprinkler is up over 14'-0" use the 1202 type with brass finish.
 - With temperature variations: Use all mechanical, Rook, the Heliport Hanger, the Utility Lumper, and any other places where required by N.F.P.A. 13.
- WELDED PIPING NOT ALLOWED. USE MECHANICAL FITTINGS, SCREWED AND GROoved FITTINGS.**
- 18. 6"x12" WELDED REDUCING FLANGE
 - 19. 6"x11" WELDED FLANGE
 - 20. 6" GROoved 90° ELL



HYD. DESIGN CRITERIA
 1.6/1500 250 gpm HOSE REMOTE AREA 2974-TNL

STEAM TUNNEL FIRE PROTECTION
 1/4"=1'-0"

FIN. FLR. ELEV. 965'-14"
BOT. CONC. CLG. -13'-6" AFF.
 USE 1/2" CONC. THICKENERS AT RING JOINTS

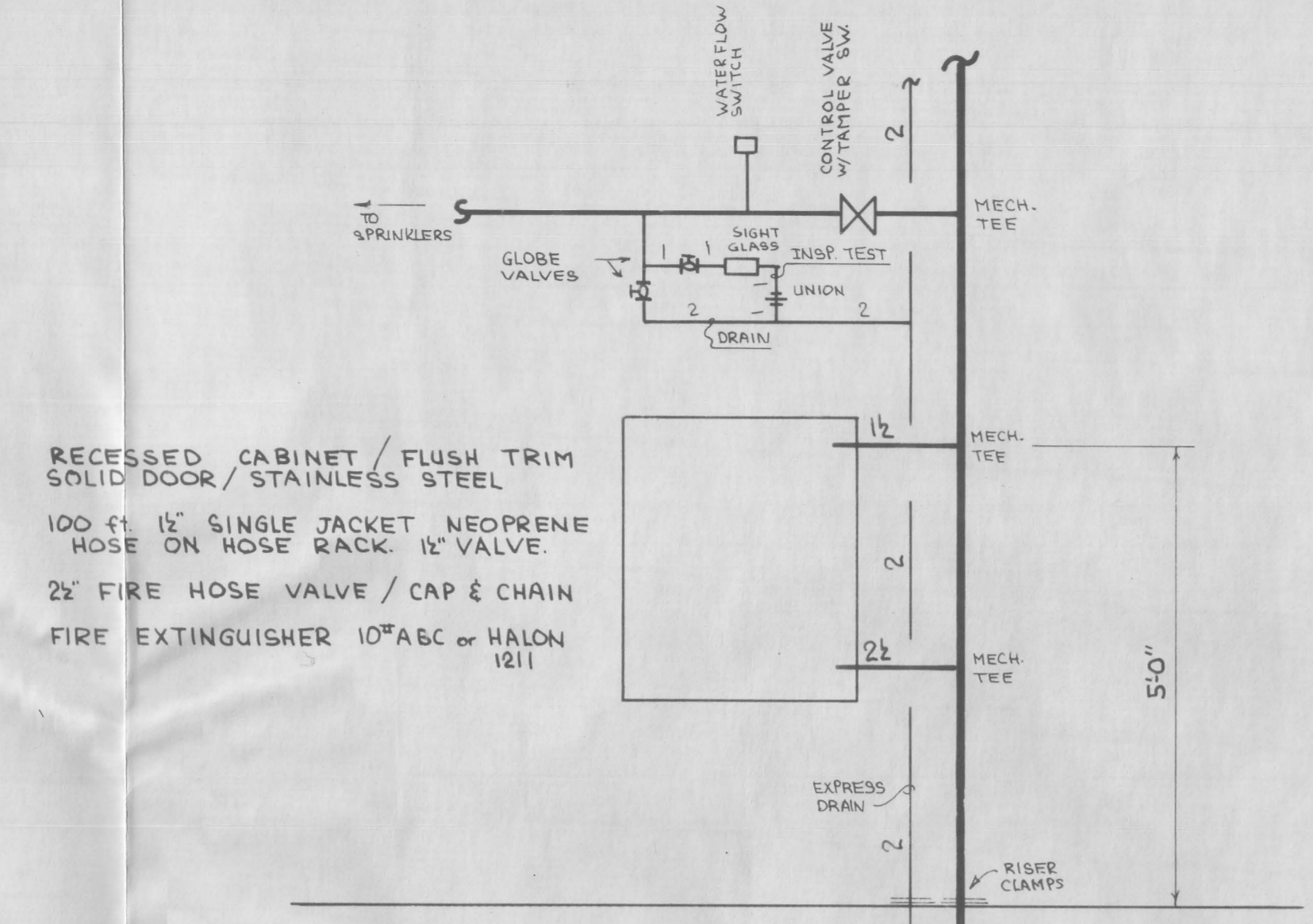
PIPE USES 1/2" HGT. MATL.
 PIPE USES 1/2" HGT. MATL.

COMMONWEALTH OF KENTUCKY

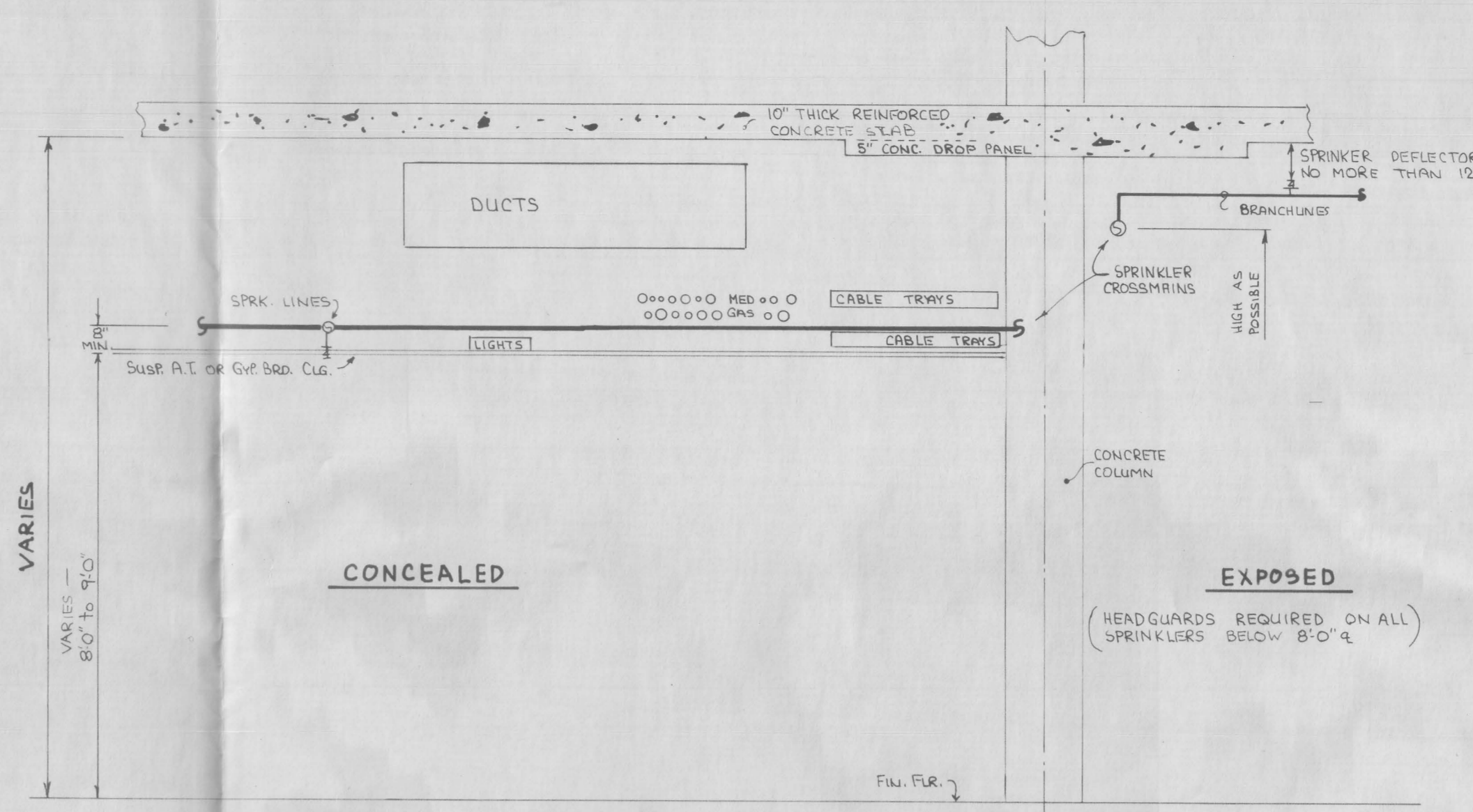
ALBERT B. CHANDLER
 Medical Center
 University of Kentucky
 Hospital Expansion/Phase II
 Lexington, Kentucky
 Contractor

GROWN SPRINKLER CORPORATION
 9-0015
 Lexington, Kentucky
 Contractor

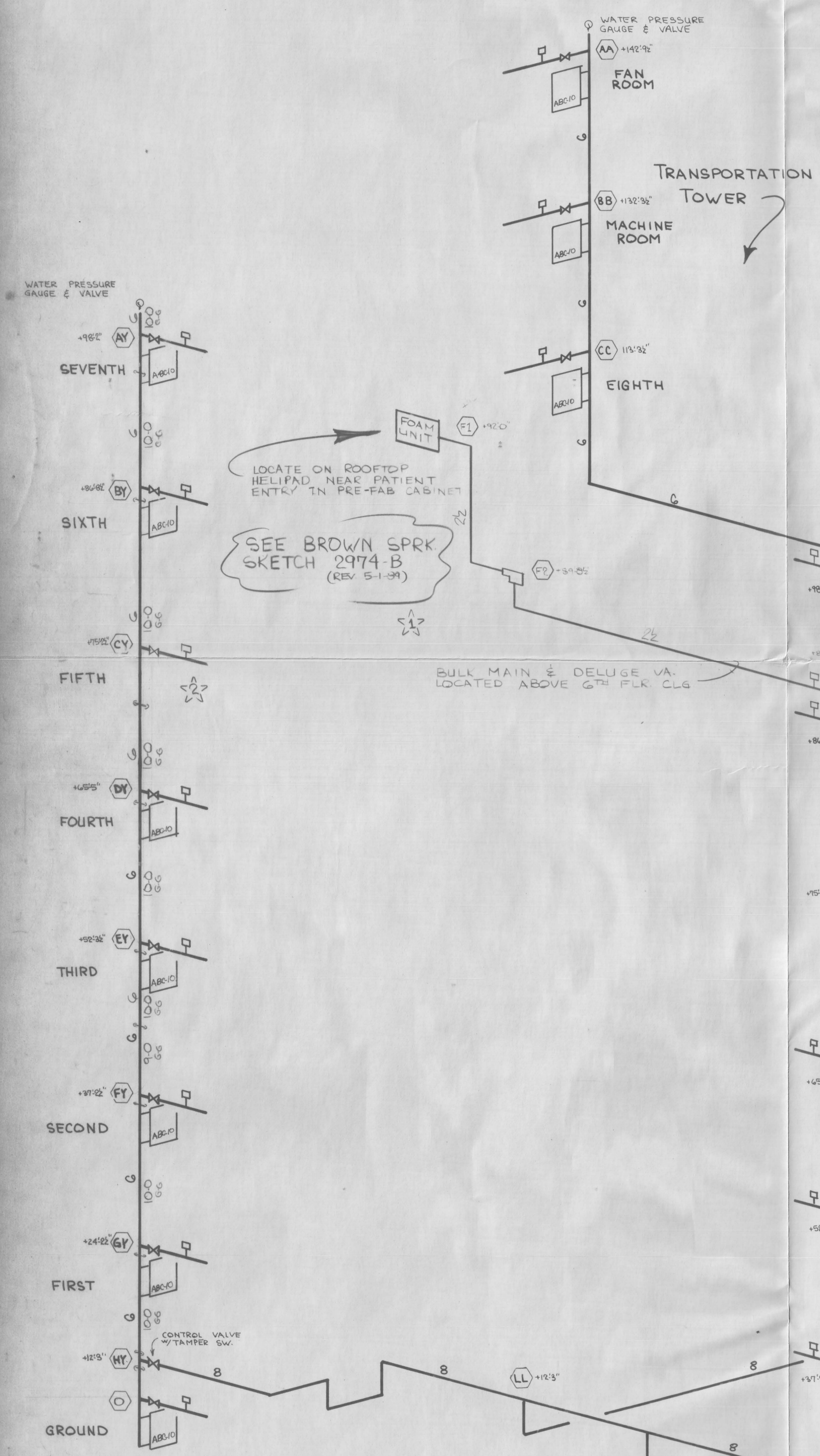
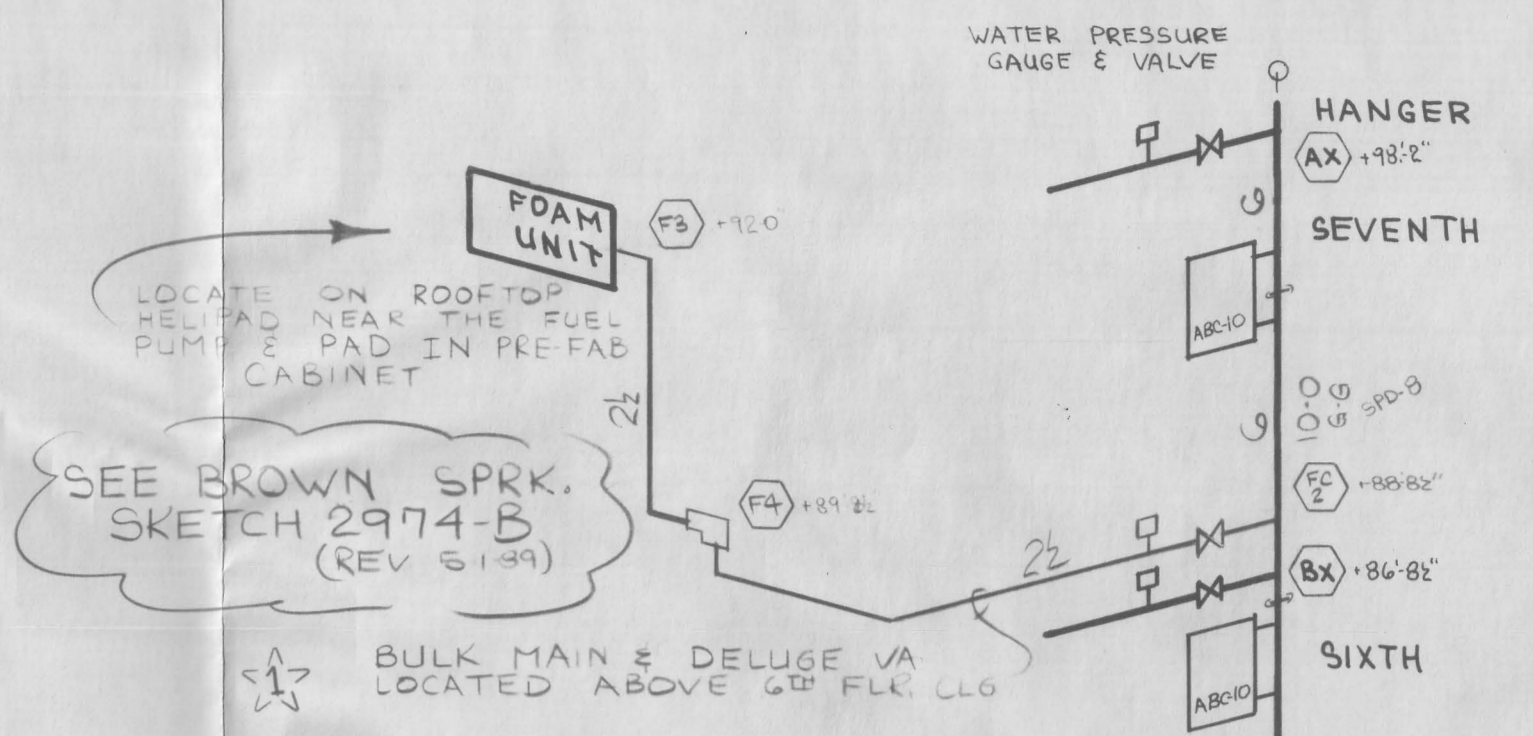
UNDERGROUND PLAN, NOTES, FIRE PUMP
 Section 1
 Scale AS NOTED Cont No. 2474 Sheet 1 of 10
 Drawn By K.A.W. Date AUG. 1988



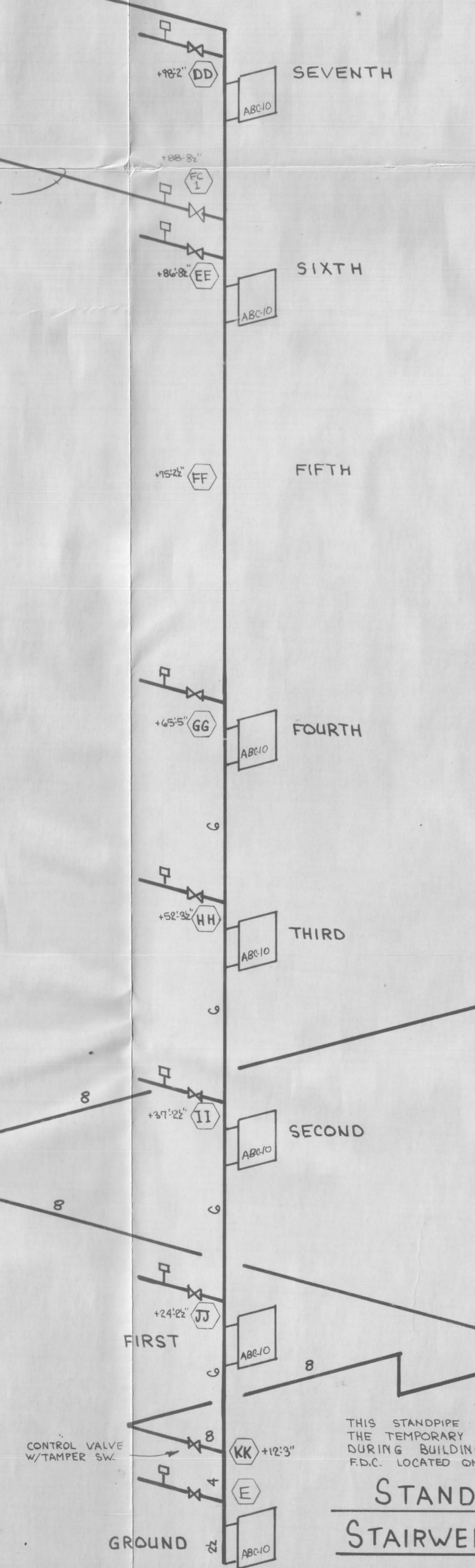
FLOOR CONTROL VALVE HOSE CABINET DETAIL
No Scale



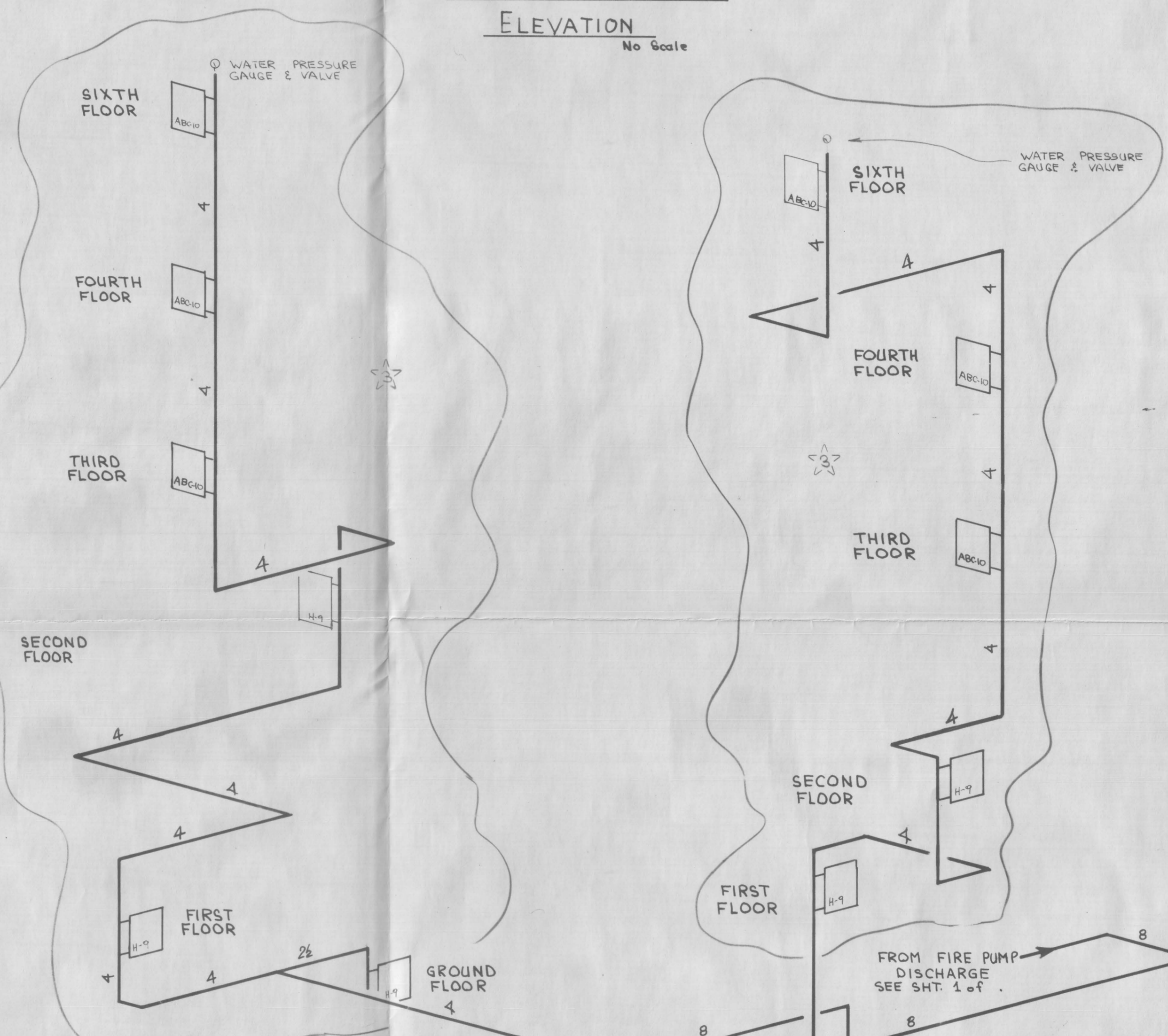
TYPICAL FLOOR ELEVATION
No Scale



STANDPIPE STAIRWELL "A"

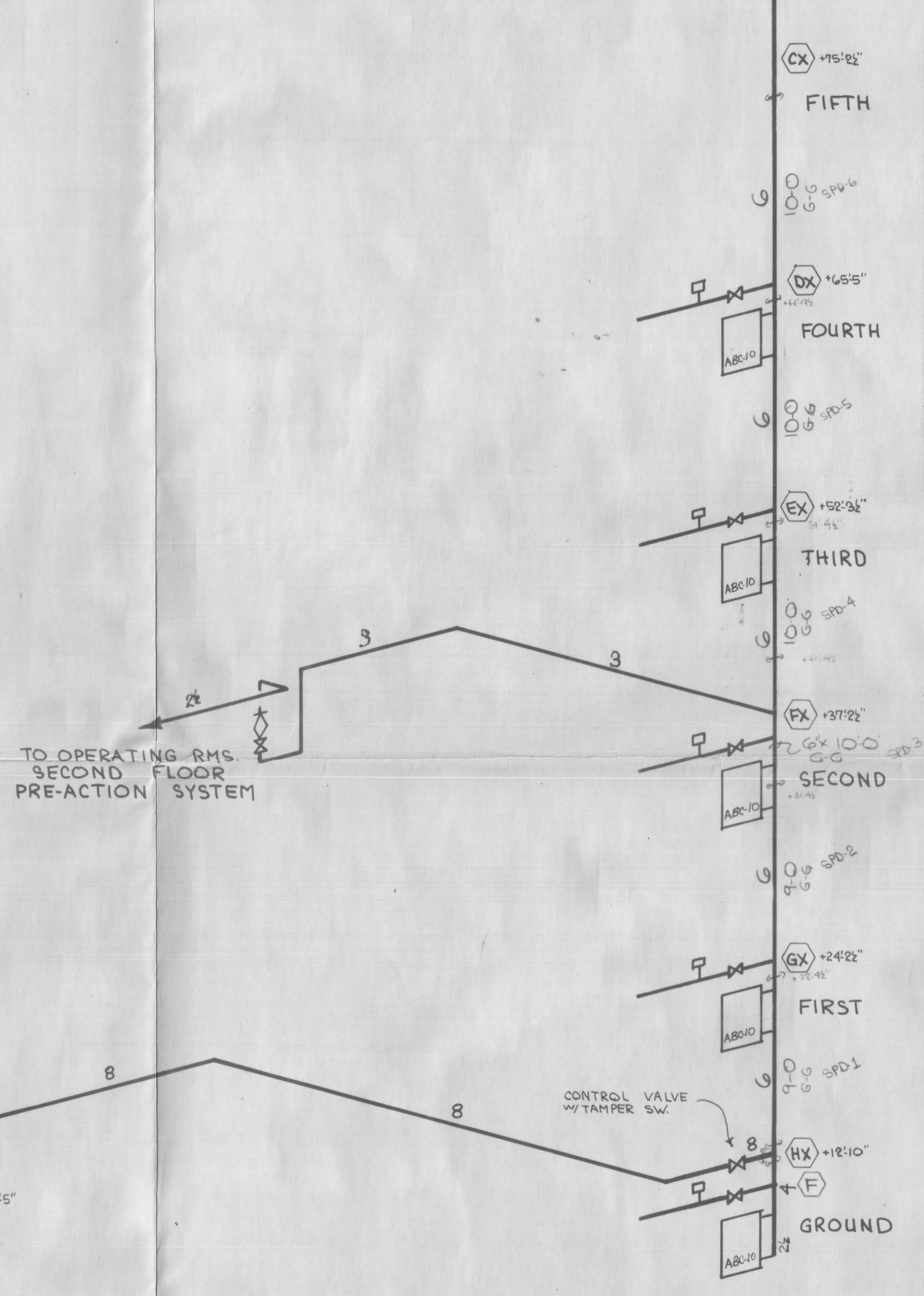


STANDPIPE STAIRWELL "B"



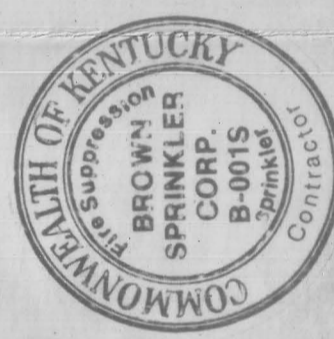
INTERIOR HOSE RISER EAST SYSTEM

INTERIOR HOSE RISER WEST SYSTEM



STANDPIPE STAIRWELL "D"

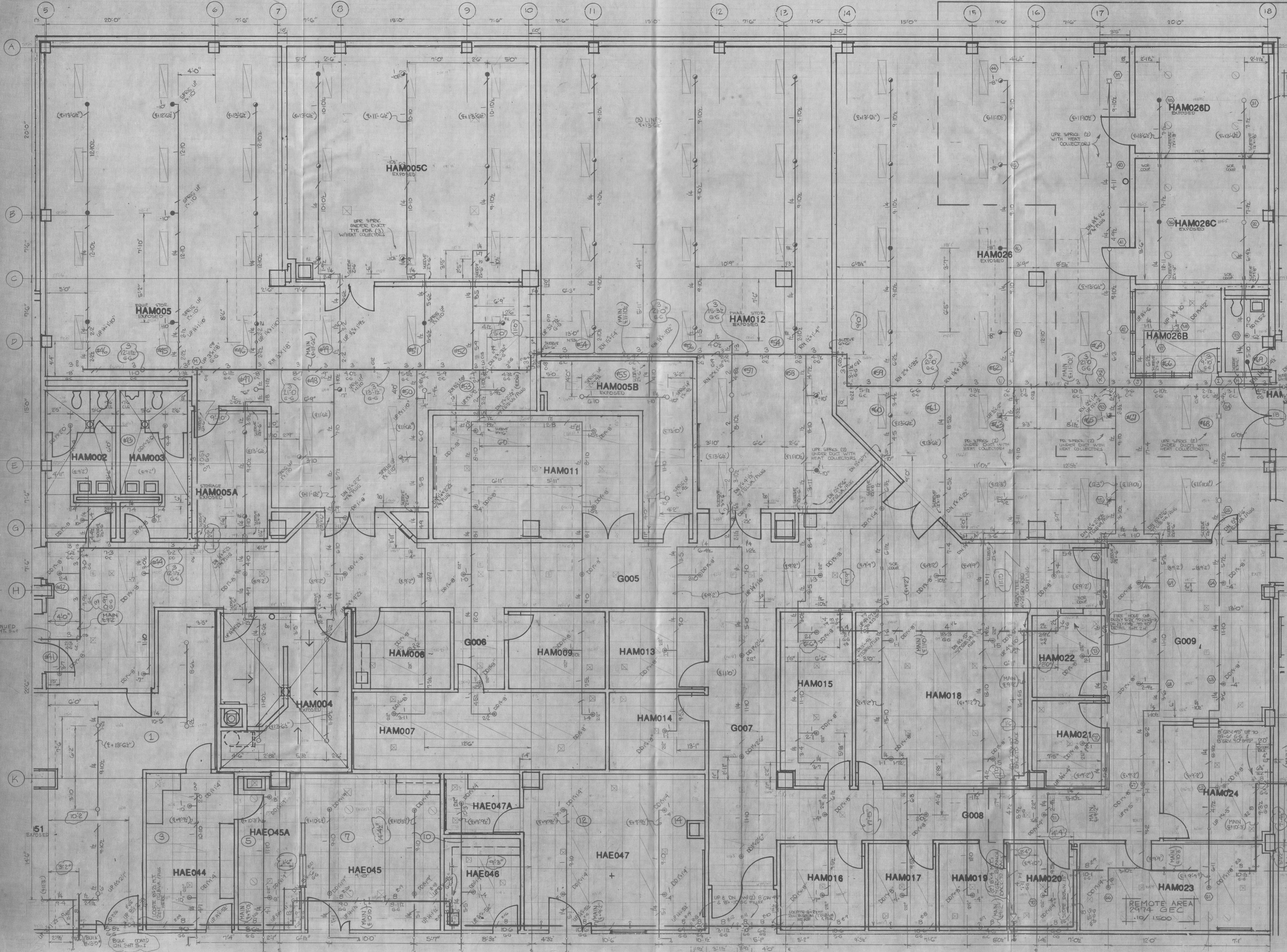
REV.	DATE	DESCRIPTION
1	6-12-89	REVISE HOSE STANDPIPES
2	5-22-89	ADD FLR CNTRL VALVE 6TH FLOOR STAIR "A"
3	5-1-89	FOAM UNITS & STOPPE STAIRWELL "D" SIZE



Robert B. Chandler Medical Center
University of Kentucky
Hospital Expansion/Phase II
Lexington, Kentucky

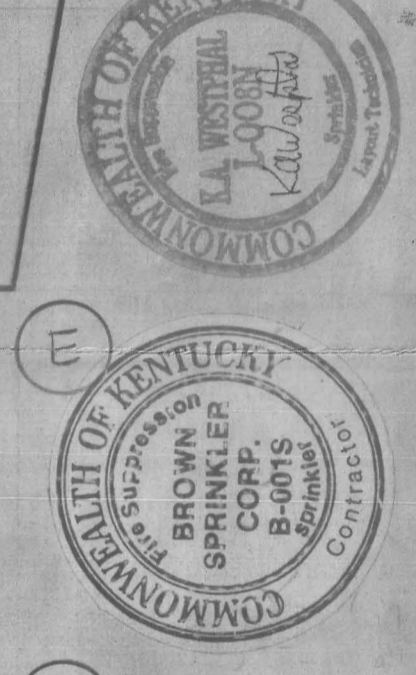
BROWN Sprinkler Corporation
1000 W. Main Street
Lexington, Kentucky 40502

STANDPIPES ISOMETRIC & FLR. ELEVATION
Section: _____
Scale: AS NOTED Cont No 2974 Sheet 2 of 10
Drawn By: K.A.W. Date AUG. 1988



REMOTE AREA
2974 GEB
10/1500

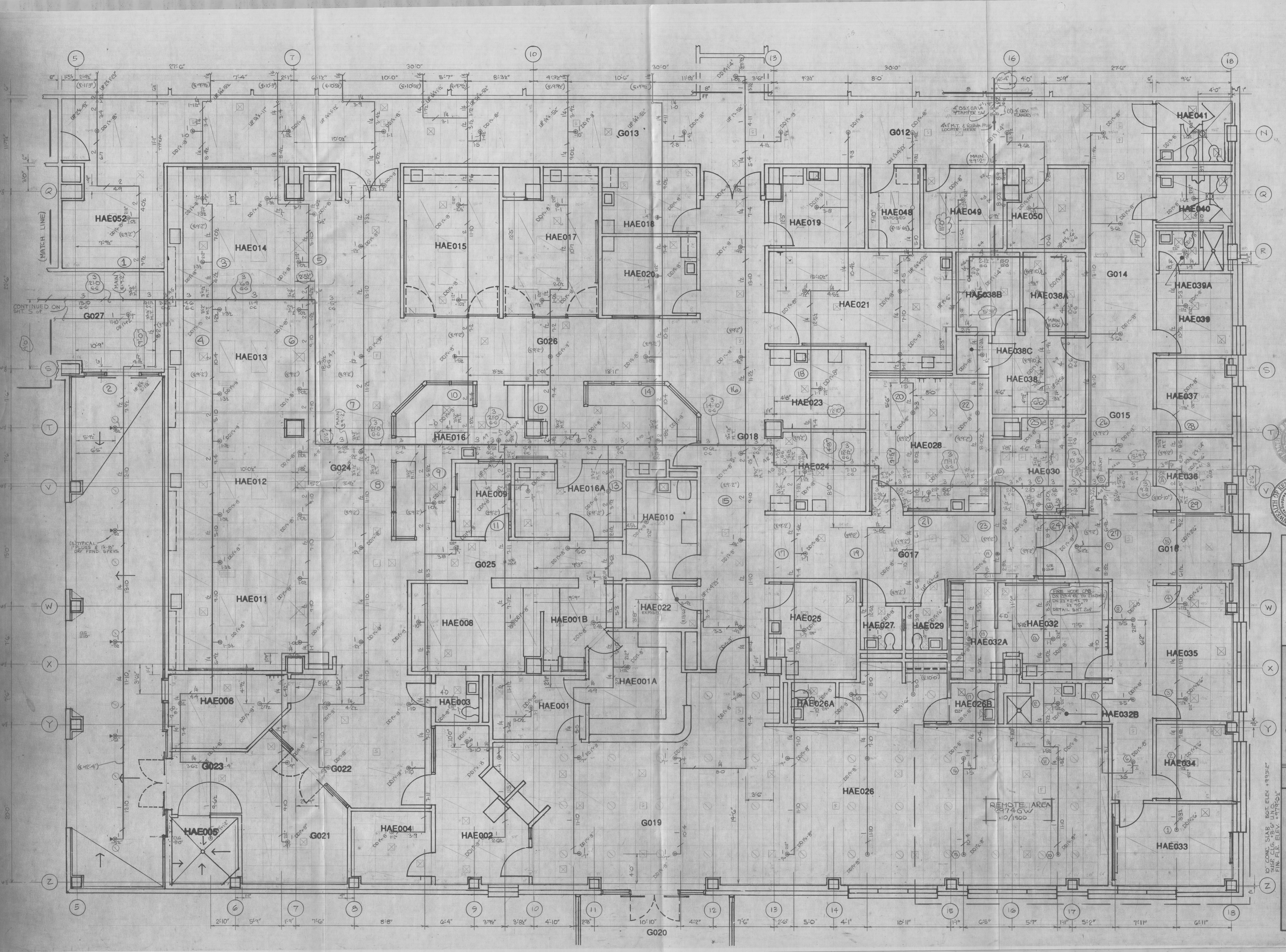
CONTINUED ON
SHEET 5 OF 16



ALBERT B. BROWN
SPRINKLER CONTRACTOR
UNIVERSITY OF KENTUCKY
HOSPITAL EXPANSION/PHASE II
LEXINGTON, KENTUCKY

BROWN Sprinkler Corporation
405 BARRON RD. LOUISVILLE, KY 40203
PH: 502-258-1234 FAX: 502-258-1235

Section: Story GROUND EAST
Scale: 1/4" = 1'-0" Cont No. 2974 Sheet 3 of 16
Drawn By: K.A.W. Date: 6/16/88



CONTINUED ON
SHT. 5 of 6

(TYPICAL)
PLUGS & 18-24
DRY PEND. SYRKS

REMOTE AREA
2074 GW
110/1500

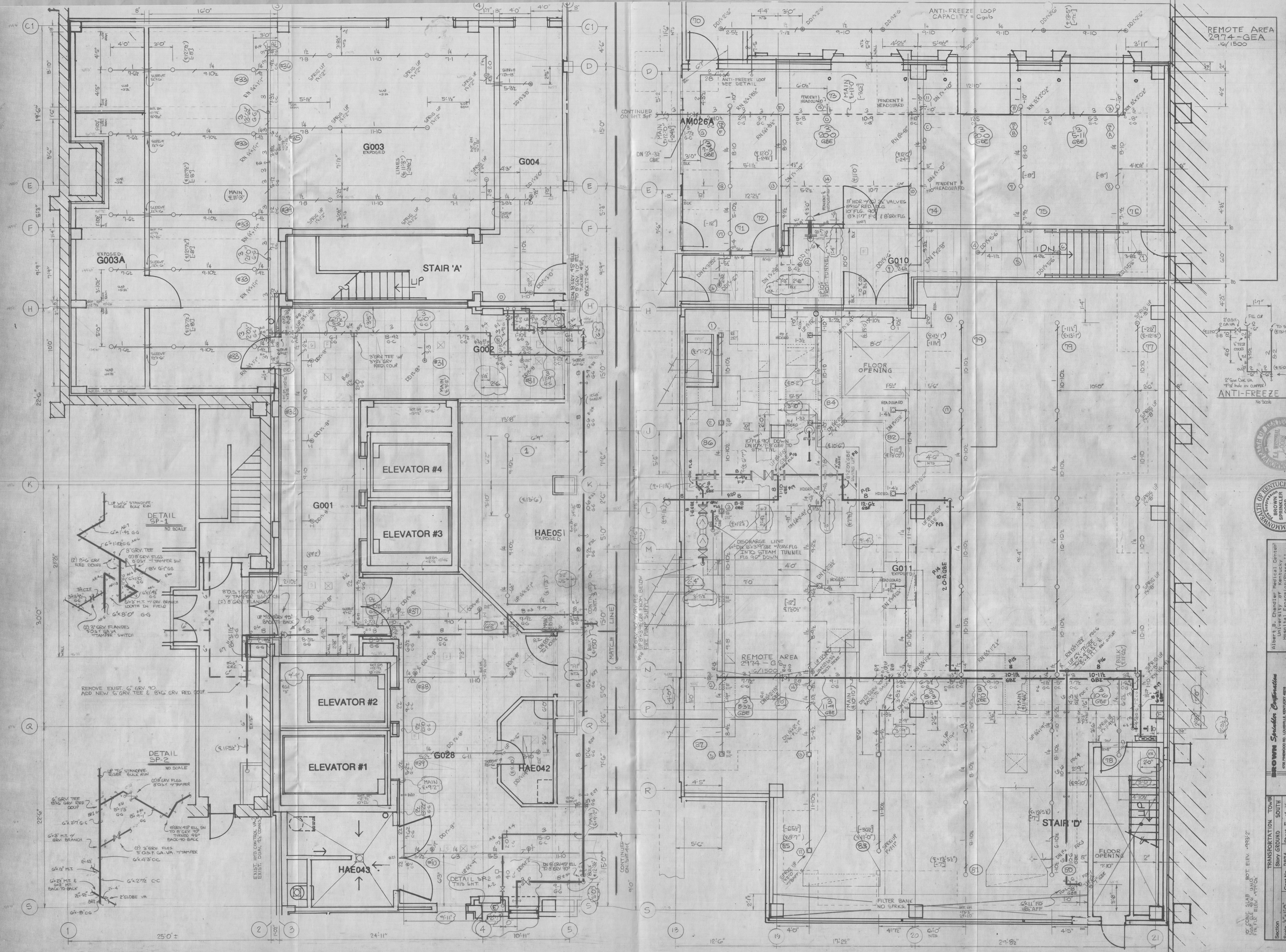


ROBERT B. CHANDLER MEDICAL CENTER
University of Kentucky
Hospital Expansion Phase II
Lexington, Kentucky

McGraw-Hill Construction Information Group
Architectural Division
1221 Avenue of the Americas
New York, N.Y. 10020-1095

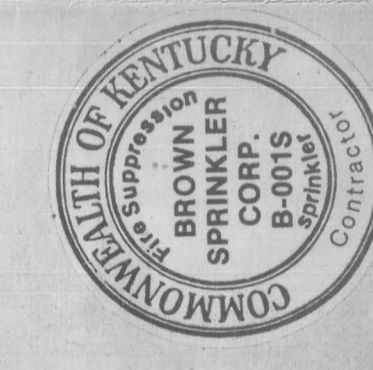
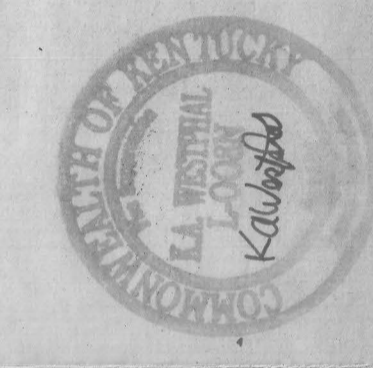
Section: Story GROUND WEST
Cont No: 2914 Sheet 4 of 16
Scale: 1/4" = 1'-0"
Date: AUG. 1988
Drawn By: K.A.V.

1'-0" CONC. SLAB, EST. ELEV. +9.92'
5'-0" CLG., +8.6' UNDO.
FIN. FL. ELEV. +9.92'



REMOTE AREA
2974-GEA
1/6/1500

ANTI-FREEZE LOOP
No Scale

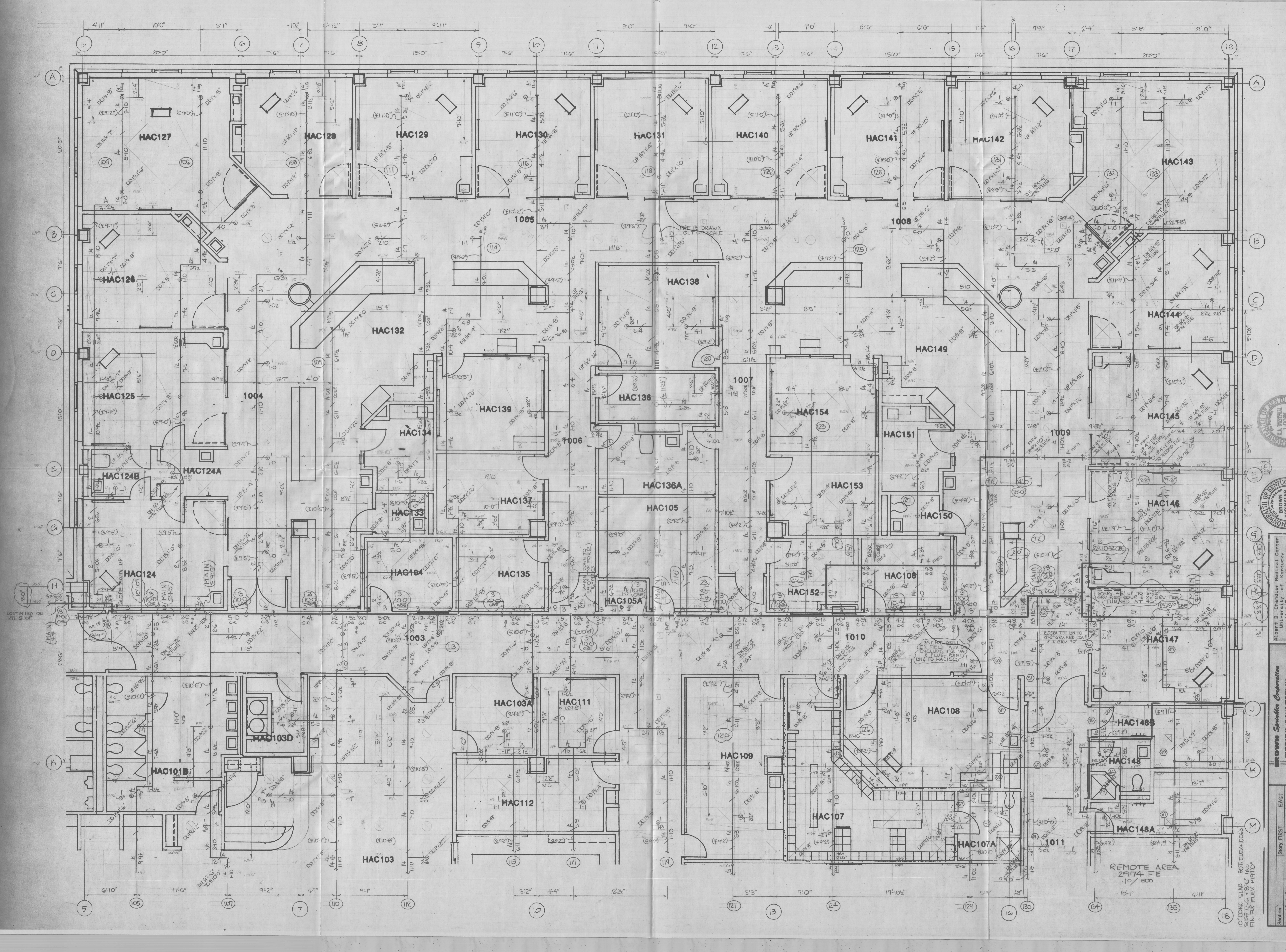


Albert B. Chandler Medical Center
University of Kentucky
Hospital Expansion/Phase II
Lexington, Kentucky

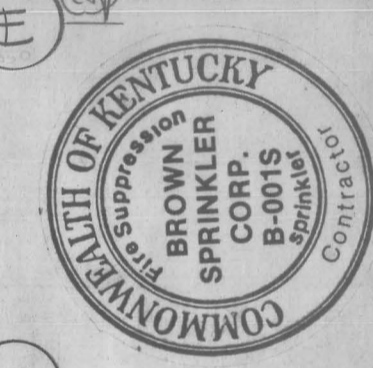
BROWN SQUADRO ENGINEERS
FOR ARCHITECTS, ENGINEERS, PLANNERS
AND INTERIORS
1000 UNIVERSITY AVENUE, SUITE 400
LEXINGTON, KY 40502
TEL: 252-2200
WWW.BROWN-SQUADRO.COM

TRANSPORTATION TOWER SOUTH
Story Ground
Scale: 1/4" = 1'-0"
Cont No: 2474
Sheet 5 of 16
Drawn By: K.A.W. Date: AUG. 1988

5'-0" FIN FLOOR ELEV. -115'-2"
5'-0" FIN FLOOR ELEV. -115'-2"



CONTINUED ON
SHEET 5 OF 6

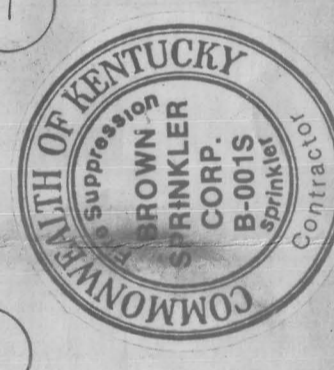
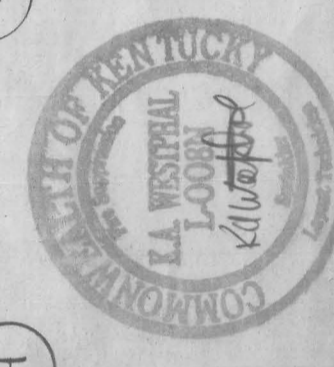
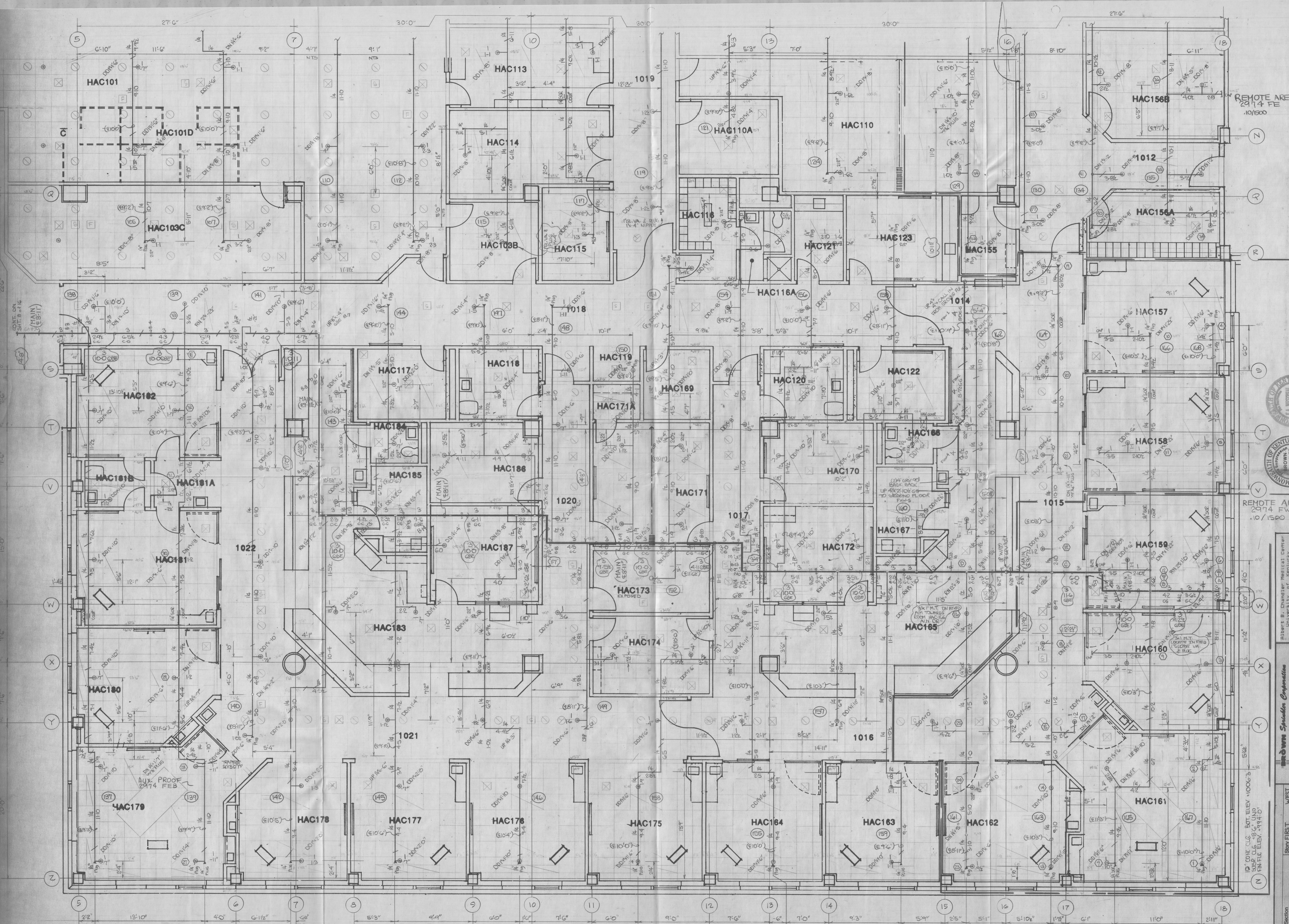


Albert B. Chandler
Professional Engineer
Hospital Expansion/Phase II
Lexington, Kentucky

BROWN Sprinkler Corporation
2000 W. Main Street
Lexington, Kentucky 40503
Tel: 606/254-1100

Section: 1000
Scale: 1/4" = 1'-0"
Drawn By: K.A.W.
Date: AUG. 1988

Sheet 6 of 16
EAST
10' COM. SLAB
ELEV. 2974 FE
FIN. FLOOR REL. 14'10"



Albert B. Chandler Medical Center
 University of Kentucky
 Lexington, Kentucky

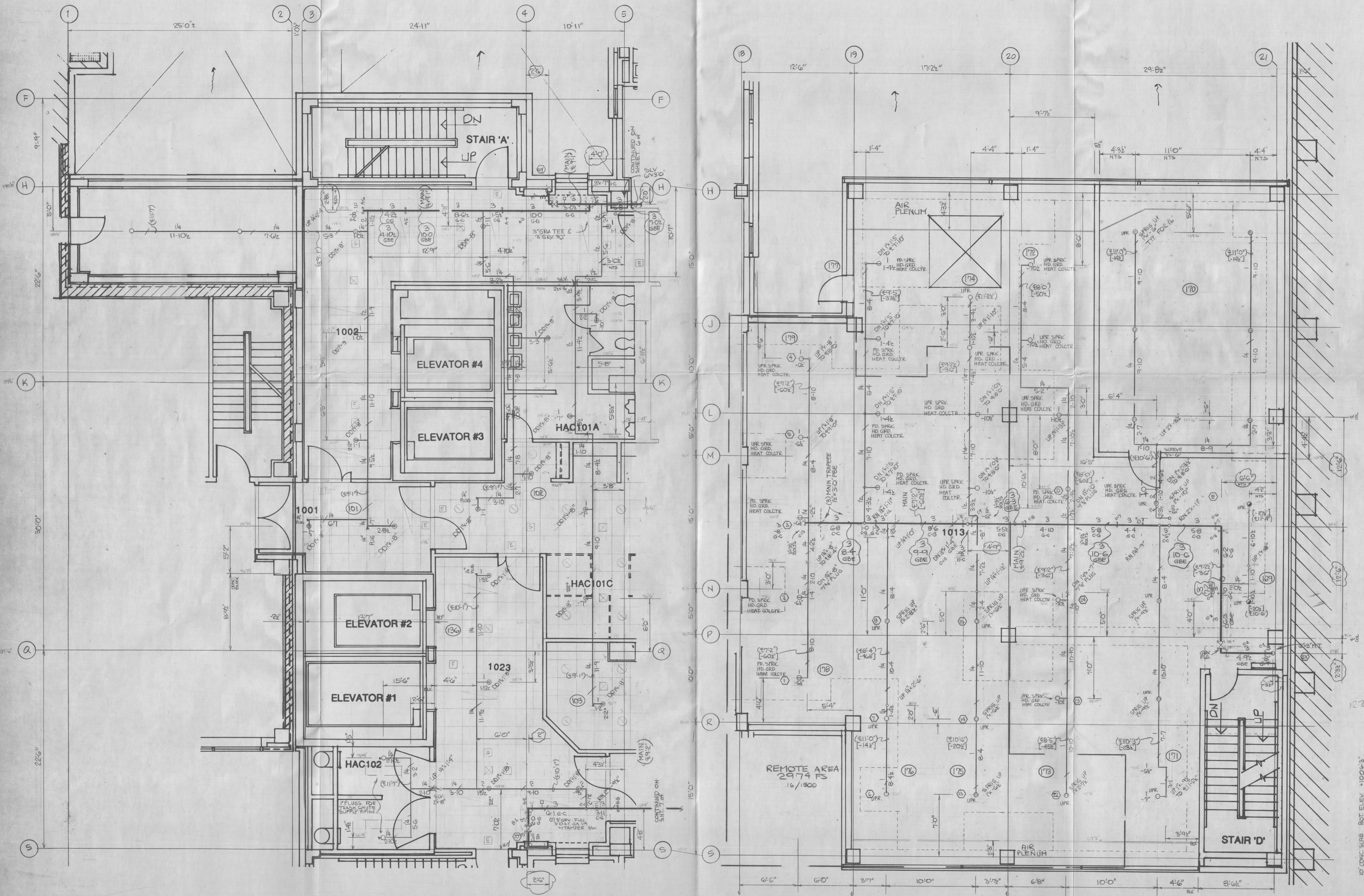
W. W. Swain Corporation
 1000 W. Main Street
 Lexington, Kentucky 40502

Section: Show First T WEST
 Scale: 1/4"=1'-0" Cont No: 2414 Sheet 7 of 16
 Drawn By: K.A.W. Date: AUG. 1988

REMOTE AREA
 2974 FE
 10/1500

REMOTE AREA
 2974 FWA
 10/1500

12' CON. C.L.S. BOT. ELEV. 1006'-3"
 S&S C.L.S. 19'-6" UND
 FIN. ELEV. 994'-0"

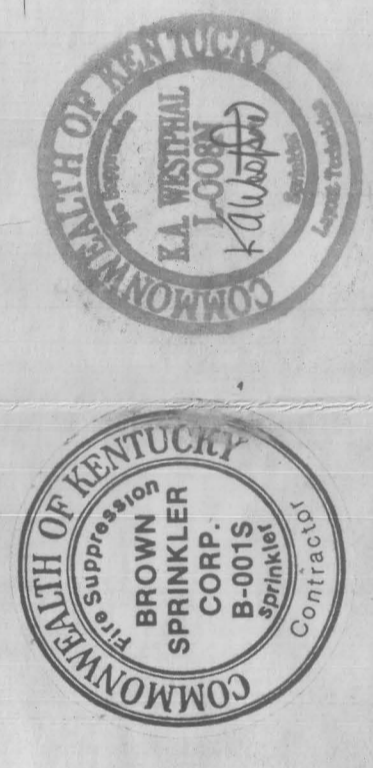


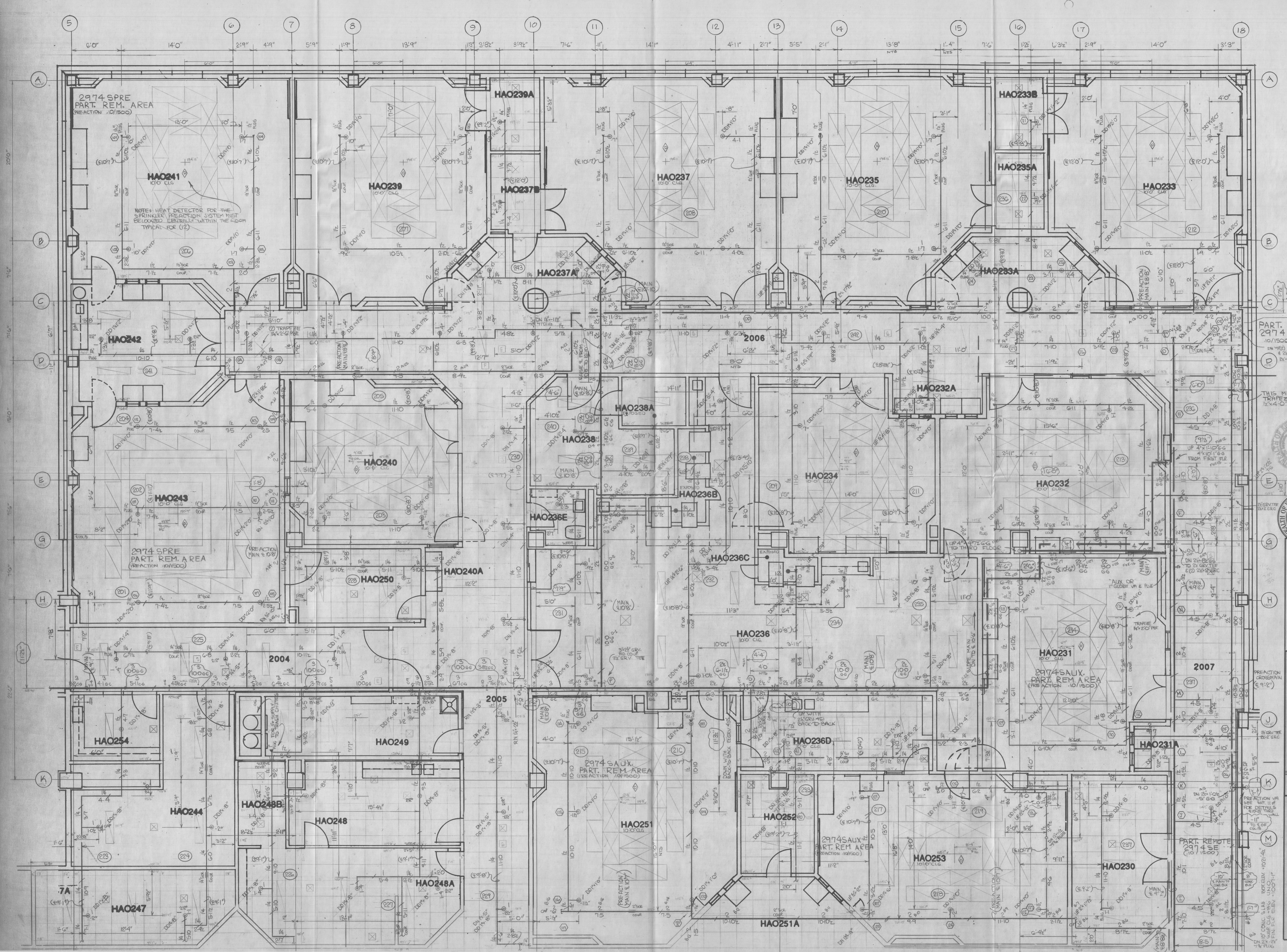
1'0" CONC SLAB BOT ELEV +100.6-3
 5/16" CLG +9.6' UND
 FIN FLR ELEV +194.0

TRANSPORTATION TOWER
 STORY FIRST SOUTH
 SHEET B OF 16
 CONT NO. 2114
 DRAWN BY K.A.W. DATE AUG. 1988

McGraw-Hill Sprinkler Corporation
 1221 AVENUE OF THE SCIENCES
 PITTSBURGH, PENNSYLVANIA 15260
 (412) 781-4000

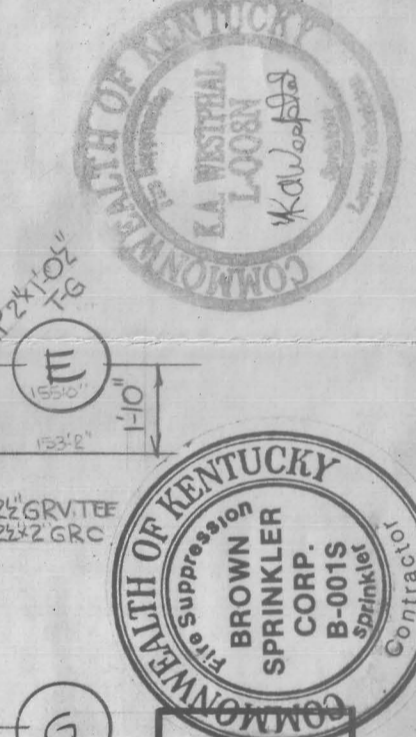
Albert B. Chandler Medical Center
 University of Kentucky
 Lexington, Kentucky





PART. REMOTE
10/1500
DN W/22 GRV. 15'
4" x 4" x 5' 6"
2" x 4" GRV.

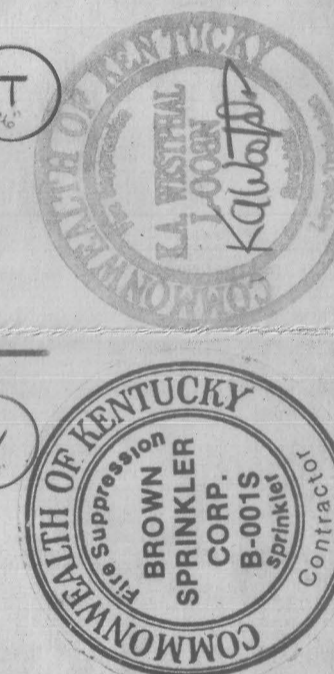
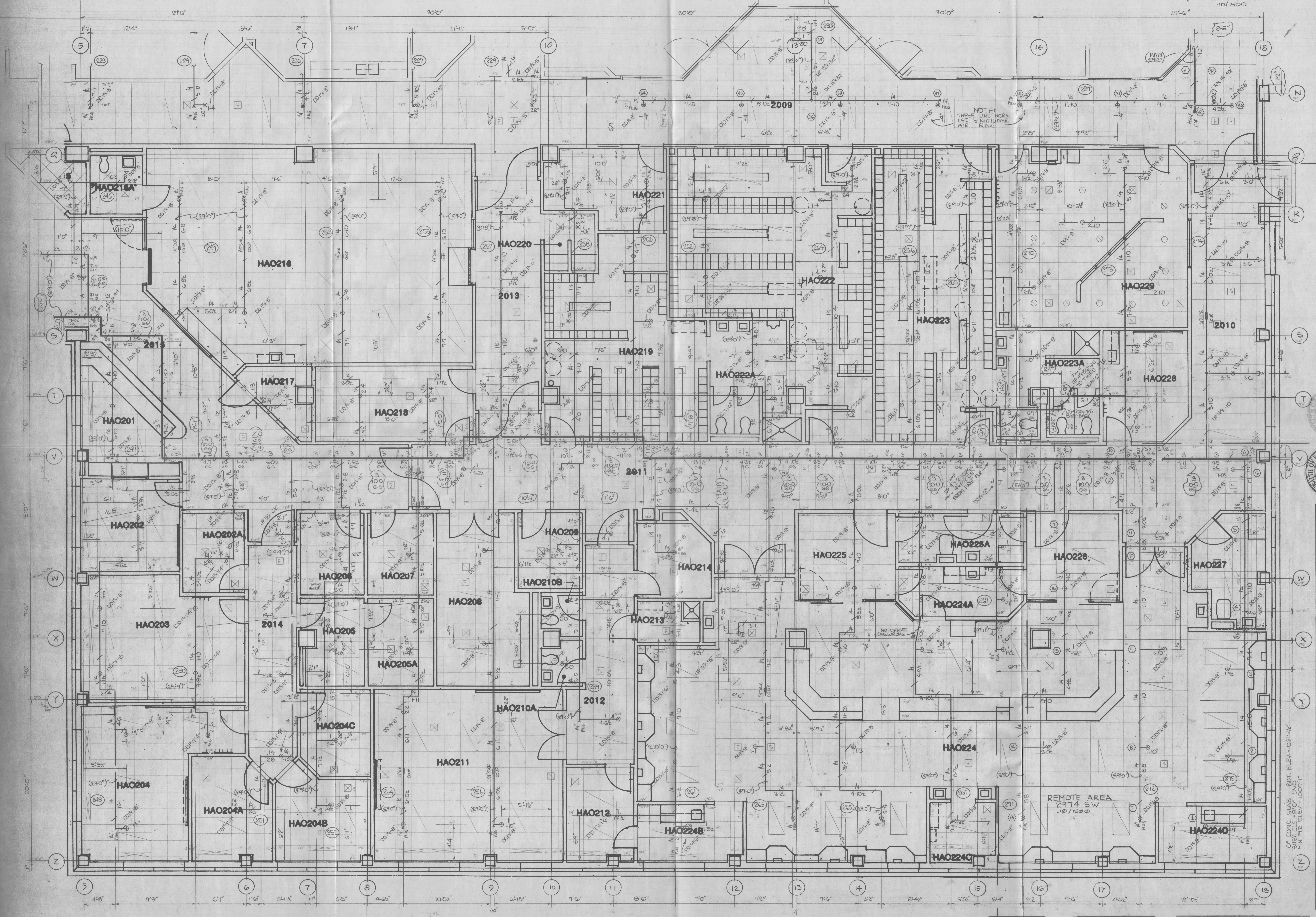
THIS MAIN USES
TRAPEZOIDAL
12" x 4" x 0" PILE



Albert B. Chandler, Medical Center
Hospital Expansion/Phase 41
Lexington, Kentucky

BROWN Swadlow Corporation
400 W. MARKET ST. LOUISVILLE, KY 40202
FOR OFFICE OR LEXINGTON OFFICE 606

Section: **SHY SECOND EAST**
Scale: **1/4" = 1'-0"** Cont. No. **2974** Sheet **9** of **16**
Drawn By: **K.A.W.** Date: **AUG. 1988**



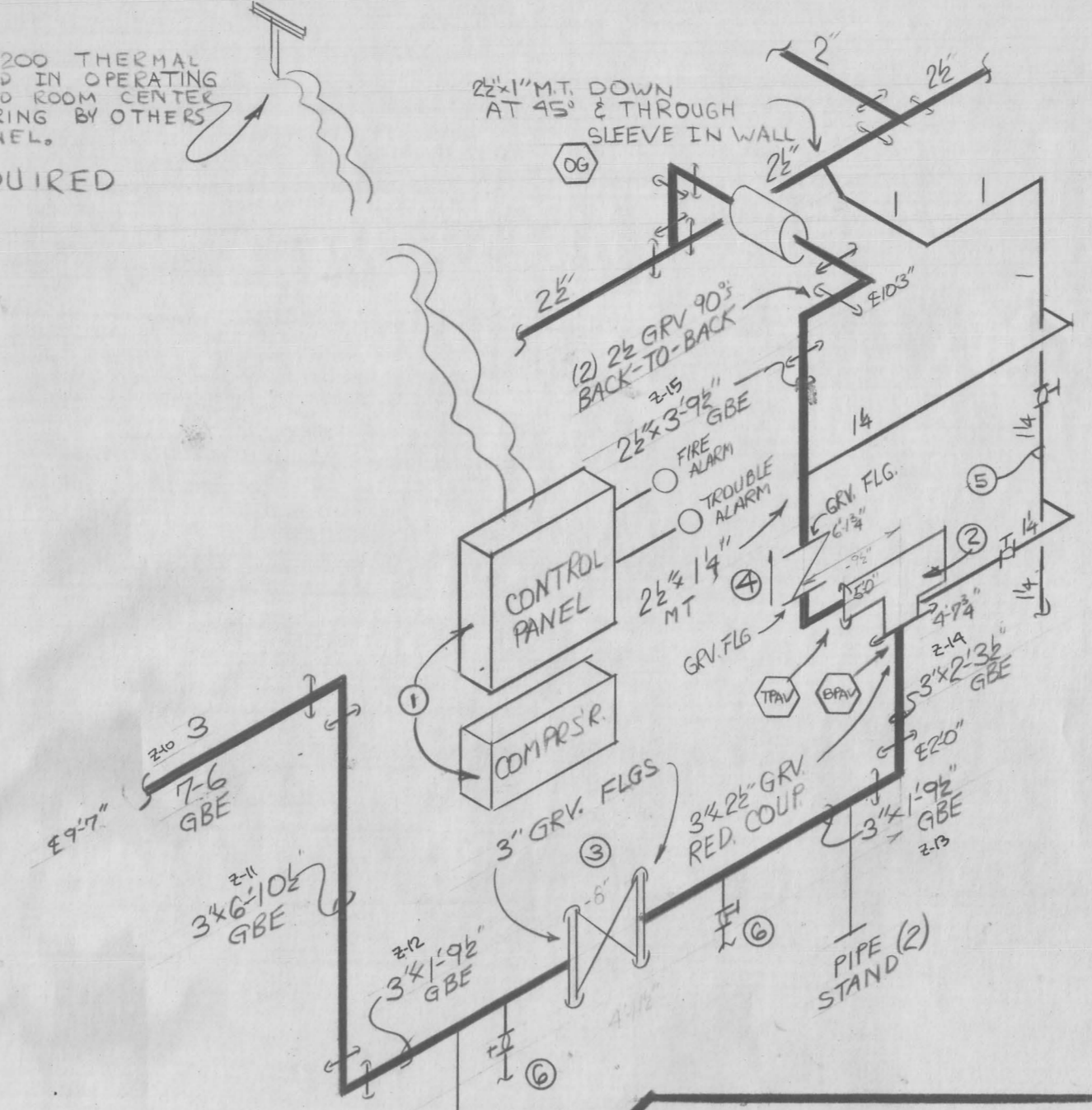
Albert B. Chandler Medical Center
University of Kentucky
Hospital
Lexington, Kentucky

BROWN Swisher Corporation
1000 S. LEXINGTON AVENUE
LEXINGTON, KY 40503
TEL: 606-255-1234
WWW.BROWNSWISHER.COM

Section: Story SECOND WEST
Scale: 1/4" = 1'-0"
Cont No: 2174
Drawn By: K.A.V.
Date: AUG. 1988

RELIABLE MOD 952-300 THERMAL DETECTOR MOUNTED IN OPERATING ROOM AS CLOSE TO ROOM CENTER AS POSSIBLE. WIRING BY OTHERS TO SUPERCONTROL PANEL.

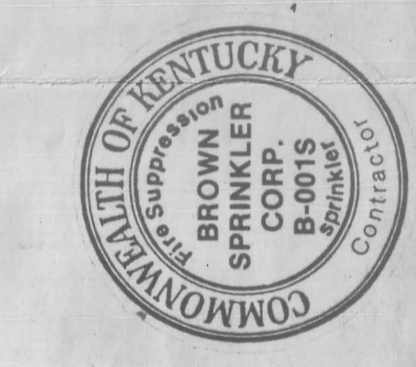
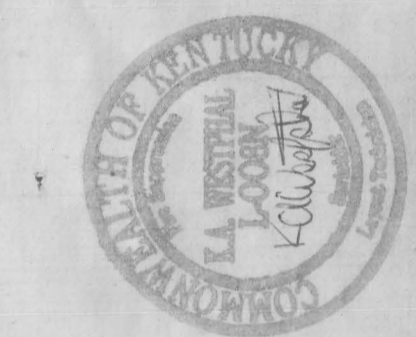
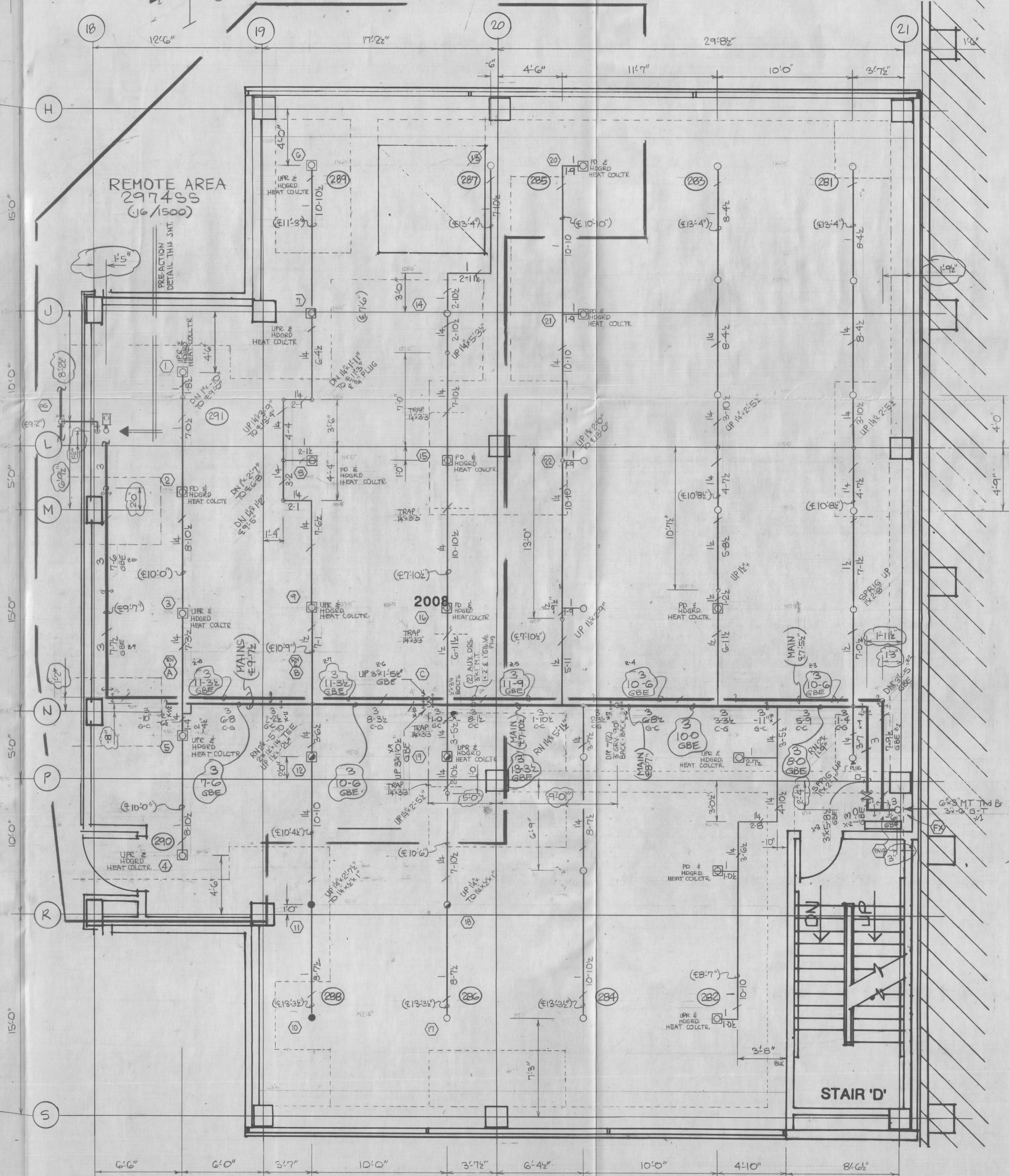
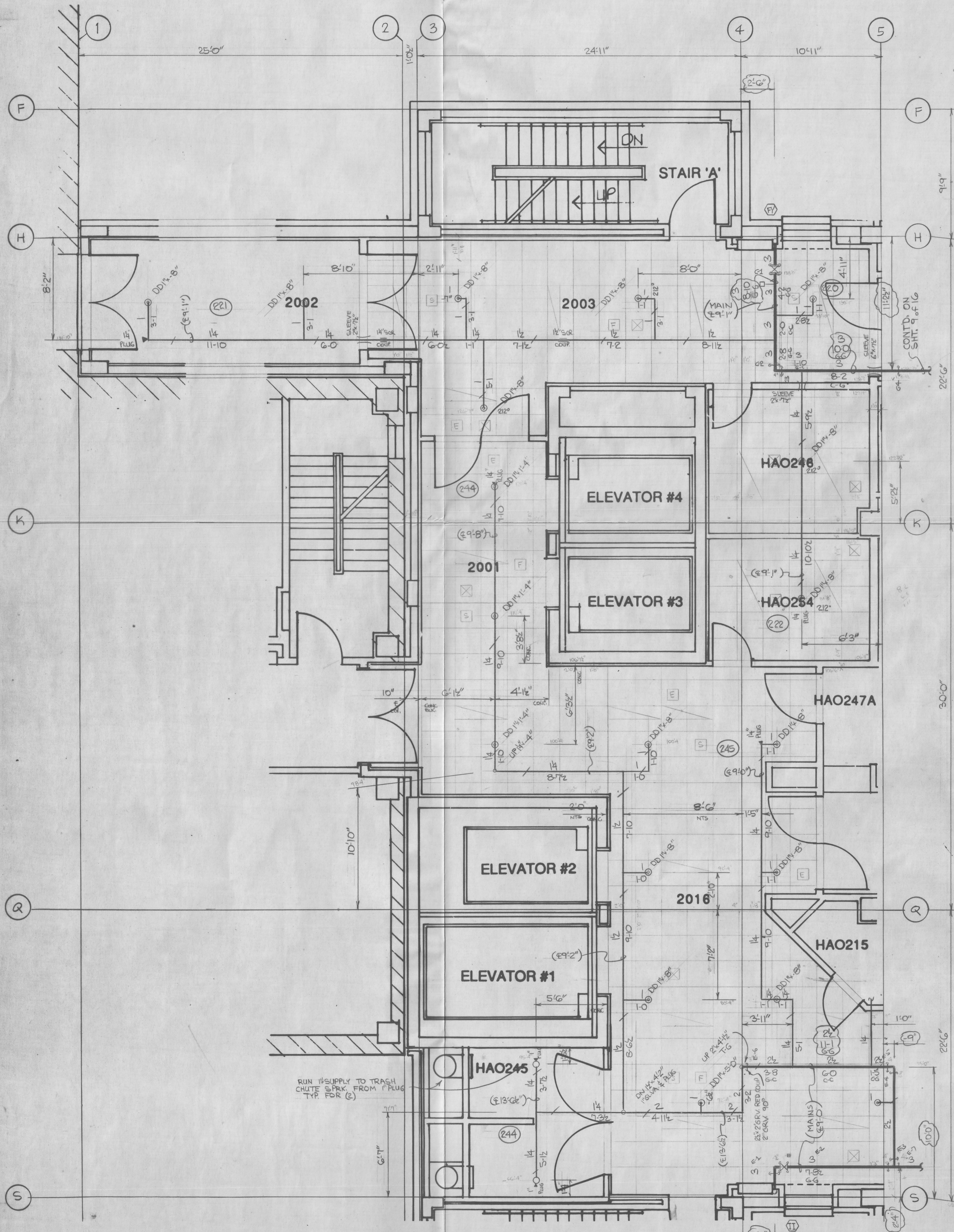
(12) REQUIRED



- 1 RELIABLE SUPERCONTROL 4800 SINGLE-ZONE PANEL WITH ALL CIRCUITRY & POWER SUPPLY UNIT TO OPERATE (1) RELIABLE DELUGE/PRE-ACTION VALVE. TIE INTO HOSPITAL CENTRAL STATION.
- 2 RELIABLE DELUGE VALVE MODEL VA 2 1/2 GROOVE-GLOBE BODY WITH WET & ELECTRIC TEST PACKAGES; SUPERCONTROL SOLENOID VALVE MODEL LV2LBX25; RELIABLE MODEL JS4A 9295 ELECTRIC SPRINKLER PRESSURE SWITCH; MODEL 'B' AIR COMPRESSOR PANEL W/INTENSAL AIR MAINTENANCE DEVICE; 2 1/2" GATE VALVE; 2 1/2" CHECK VALVE; 2 1/2" DRAIN LINE; AUXILIARY DRAIN LINE.

RELIABLE SUPERCONTROL 4800
PRE-ACTION RISER DETAIL

NOTE: ARCHITECT TO DETERMINE IF SINGLE OR DOUBLE INTERLOCK SYSTEM WILL BE USED.

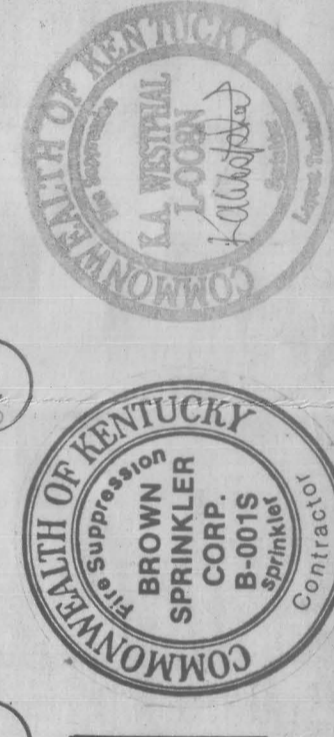
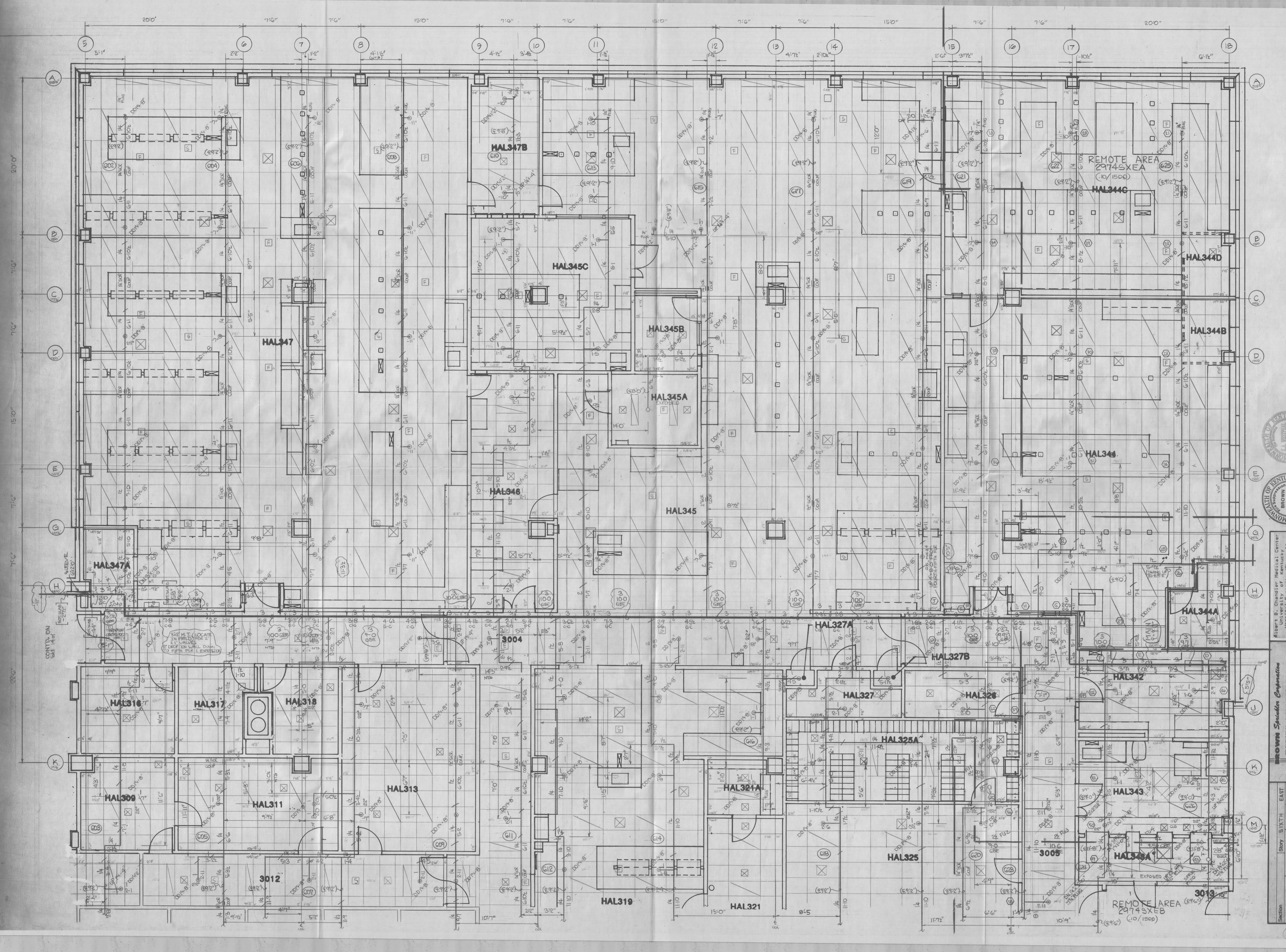


Albert B. Chard, P.E., M.A.S.T. (Senior)
University of Kentucky
Hospital Expansion/Phase II
Lexington, Kentucky

Brown Sprinkler Corporation
1000 PHENIX RD., LOUISVILLE, KENTUCKY 40203
A Division of: www.brownsprinkler.com

10" CONC. SLAB, BOT. ELEV. + 021'42"
SUSP. CLG. 8'-6" JAC
FIN. FLOOR ELEV. + 100'1"

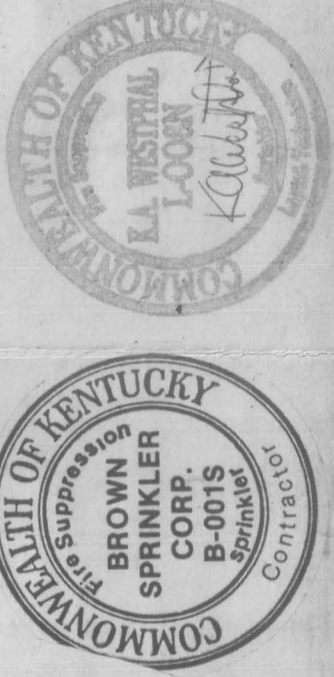
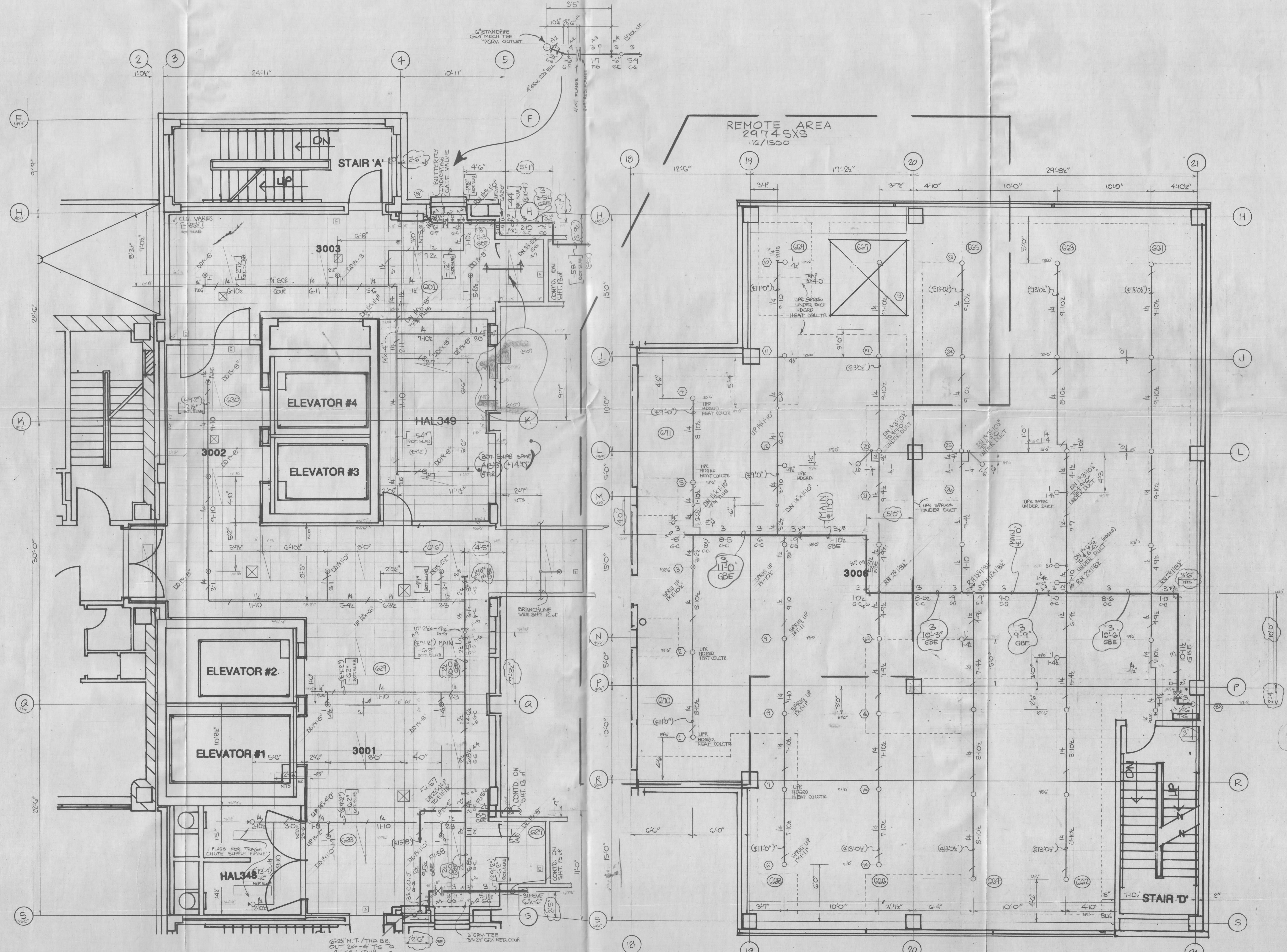
TRANSFORMATION TOWER
STORY SECOND SOUTH
Cont No. 2374 Sheet II of IG
Scale 1/4" = 1'-0"
Drawn By: K.A.V. Date AUG. 1988



Albert B. Brown, Medical Center
 University of Louisville
 Hospital Expansion/Phase II
 Lexington, Kentucky

Brown Sprinkler Corporation
 415 FARMWOOD ROAD, LOUISVILLE, KENTUCKY 40203
 505 WEST ST., LOUISVILLE, KENTUCKY 40202

Section: STORY SIXTH EAST
 Scale: 1/8" = 1'-0"
 Cont. No. 2974 Date: AUG. 1988
 Drawn By: K.A.W.



COMMONWEALTH OF KENTUCKY
 BROWN SPAIDEN CORPORATION
 8-2015
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF KENTUCKY

BROWN SPAIDEN CORPORATION
 100 W. MAIN ST., SUITE 1000
 LOUISVILLE, KENTUCKY 40202
 502.581.1100
 www.brownspaiden.com

TRANSPORTATION TOWER SOUTH
 Sheet 14 of 16
 Cont No 2974
 Date AUG. 1988
 Drawn BY K.A.V.

10' CONC. SLAB BOT. ELEV. +100'72"
 SUSP. CG. +8'6" AFF. UNO
 FIN. F.L.P. ELEV. + 105'1"75"

